

**SEARCH REQUEST FORM****Scientific and Technical Information Center**

Requester's Full Name: Anne Marie Koss Examiner #: 78972 Date: 4/23/02  
 Art Unit: 1751 Phone Number 305 3176 Serial Number: 09/881,807  
 Mail Box and Bldg/Room Location: CB 9B3D Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): Aszene et al

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search compound of formula I (claim 1)  
and III (claim 8).

Thanks.

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Searcher: K. Fuller  
 Searcher Phone #: \_\_\_\_\_  
 Searcher Location: \_\_\_\_\_  
 Date Searcher Picked Up: \_\_\_\_\_  
 Date Completed: 5/1/02  
 Searcher Prep & Review Time: 20  
 Clerical Prep Time: \_\_\_\_\_  
 Online Time: 53

Type of Search	Vendors and cost where applicable
NA Sequence (#)	STN <input checked="" type="checkbox"/>
AA Sequence (#)	Dialog <input checked="" type="checkbox"/>
Structure (#)	Questel/Orbit <input type="checkbox"/>
Bibliographic	Dr. Link <input type="checkbox"/>
Litigation	Lexis/Nexis <input type="checkbox"/>
Fulltext	Sequence Systems <input type="checkbox"/>
Patent Family	WWW/Internet <input type="checkbox"/>
Other	Other (specify) _____

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Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

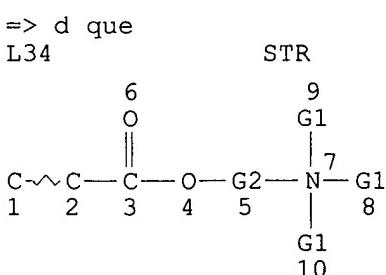
=> file hcplus  
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FILE COVERS 1907 - 1 May 2002 VOL 136 ISS 18  
FILE LAST UPDATED: 30 Apr 2002 (20020430/ED)

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

CAS roles have been modified effective December 16, 2001. Please  
check your SDI profiles to see if they need to be revised. For  
information on CAS roles, enter HELP ROLES at an arrow prompt or use  
the CAS Roles thesaurus (/RL field) in this file.



*Covers*  
*claim 1 + 8*

*4,540 polymers*

VAR G1=AK/CB

VAR G2=AK/CB

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L36 SCR 2040

L38 SCR 2043

L40 4540 SEA FILE=REGISTRY SSS FUL L34 AND L36 AND L38

L41 98 SEA FILE=REGISTRY ABB=ON L40 AND 1/NC

L42 468 SEA FILE=REGISTRY ABB=ON L40 AND HOMOPOLYMER

L43 1229 SEA FILE=HCAPLUS ABB=ON L41 OR L42

L44 17 SEA FILE=HCAPLUS ABB=ON L43 AND FATTY(3A) (ALC OR ALCOHOL?)

L45 3 SEA FILE=HCAPLUS ABB=ON L44 AND FATTY(5A)?AMIDE?

L47 8 SEA FILE=HCAPLUS ABB=ON L44 AND (?ETHOXYLAT? OR ?ALKOXYLAT?  
OR ?PROPOXYLAT? OR ?METHOXYLAT?)

L48 9 SEA FILE=HCAPLUS ABB=ON L45 OR L47

L49 5567 SEA FILE=HCAPLUS ABB=ON L40

L50 38 SEA FILE=HCAPLUS ABB=ON L49 AND FATTY(3A) (ALC OR ALCOHOL?)

L51 14 SEA FILE=HCAPLUS ABB=ON L50 AND (?ETHOXYLAT? OR ?ALKOXYLAT?  
OR ?PROPOXYLAT? OR ?METHOXYLAT?)

L52 6 SEA FILE=HCAPLUS ABB=ON L50 AND FATTY(5A)?AMIDE?

L53 16 SEA FILE=HCAPLUS ABB=ON L48 OR L51 OR L52

L54 12 SEA FILE=HCAPLUS ABB=ON L43 AND OXID?(3A)AGENT#

L55 33 SEA FILE=HCAPLUS ABB=ON L49 AND OXID?(3A)AGENT#

L56 4 SEA FILE=HCAPLUS ABB=ON L55 AND FATTY

L58 26 SEA FILE=HCAPLUS ABB=ON L53 OR L54 OR L56

L59 18 SEA FILE=HCAPLUS ABB=ON L55 AND (COMPOSITION? OR COMPNS)

L60 35 SEA FILE=HCAPLUS ABB=ON L58 OR L59

L62 24 SEA FILE=HCAPLUS ABB=ON L60 AND COSMETIC?/SC, SX

L74 138 SEA FILE=HCAPLUS ABB=ON L43 AND ?GLYCOL?

L77 9 SEA FILE=HCAPLUS ABB=ON L74 AND FATTY(4A) (ALC OR ALCOHOL# OR  
?AMIDE?)

L78 27 SEA FILE=HCAPLUS ABB=ON L62 OR L77

27 CA references

&gt; d 178 all 1-27 hitstr

L78 ANSWER 1 OF 27 HCAPLUS COPYRIGHT 2002 ACS

AN 2001:56855 HCAPLUS

DN 134:120575

TI Second agents for hair permanent waving, and method therefor

IN Kawai, Hirotake; Nakamura, Yoshimi; Tsuge, Mari

PA Hoyu K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A61K007-09

CC 62-3 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001019625	A2	20010123	JP 1999-193093	19990707
AB	The invention relates to a second agent compn. for hair				

permanent waving, which provides sufficient permanent waving without a step of intermediate rinsing after using a 1st agent, wherein the compn. contains (1) **oxidizing agent**, (2) half ester of itaconic acid and polyoxyethylene alkyl ether, an ester of methacrylic acid and polyoxyethylene alkyl ether, and/or a (meth)acrylate-contg. anionic polymer. A hair permanent waving 2nd agent contg. sodium bromate 7.5, acylates/Steareth-20 itaconate copolymer 1, fragrance 0.1, POB lauryl ether 0.3, keratin hydrolyzate 0.5, and citrates and water q.s. to 100 % was prep'd.

ST hair permanent waving acrylate Steareth itaconate copolymer

IT Polyelectrolytes

(anionic; hair permanent waving 2nd **agents** contg. **oxidizing agents** contg. polyoxyethylene alkyl ether itaconates or polyoxyethylene alkyl ether methacrylate or (meth)acrylate-contg. anionic polymers)

IT Polyelectrolytes

(cationic; hair permanent waving 2nd **agents** contg. **oxidizing agents** contg. polyoxyethylene alkyl ether itaconates or polyoxyethylene alkyl ether methacrylate or (meth)acrylate-contg. anionic polymers and cationic polymers)

IT Hair preparations

(permanent wave; hair permanent waving 2nd **agents** contg. **oxidizing agents** contg. polyoxyethylene alkyl ether itaconates or polyoxyethylene alkyl ether methacrylate or (meth)acrylate-contg. anionic polymers)

IT 79-10-7D, Acrylic acid, polymers 7722-84-1, Hydrogen peroxide, biological studies 7789-38-0, Sodium bromate 321327-97-3 321327-99-5  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hair permanent waving 2nd **agents** contg. **oxidizing agents** contg. polyoxyethylene alkyl ether itaconates or polyoxyethylene alkyl ether methacrylate or (meth)acrylate-contg. anionic polymers)

IT 26590-05-6, Dimethyldiallylammoniumchloride-acrylamide copolymer

54351-50-7 **99588-80-4**, N,N-Dimethyl aminoethyl methacrylate-vinylpyrrolidone diethylsulfate copolymer

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hair permanent waving 2nd **agents** contg. **oxidizing agents** contg. polyoxyethylene alkyl ether itaconates or polyoxyethylene alkyl ether methacrylate or (meth)acrylate-contg. anionic polymers and cationic polymers)

IT **99588-80-4**, N,N-Dimethyl aminoethyl methacrylate-vinylpyrrolidone diethylsulfate copolymer

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(hair permanent waving 2nd **agents** contg. **oxidizing agents** contg. polyoxyethylene alkyl ether itaconates or polyoxyethylene alkyl ether methacrylate or (meth)acrylate-contg. anionic polymers and cationic polymers)

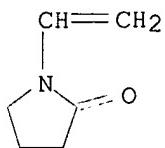
RN 99588-80-4 HCPLUS

CN Ethanaminium, N-ethyl-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, ethyl sulfate, polymer with 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O

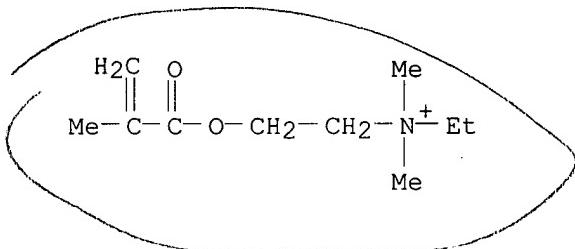


CM 2

CRN 13223-03-5  
 CMF C10 H20 N O2 . C2 H5 O4 S

CM 3

CRN 48063-69-0  
 CMF C10 H20 N O2



CM 4

CRN 48028-76-8  
 CMF C2 H5 O4 S

 $\text{Et}-\text{O}-\text{SO}_3^-$ 

L78 ANSWER 2 OF 27 HCPLUS COPYRIGHT 2002 ACS  
 AN 2000:114381 HCPLUS  
 DN 132:156549  
 TI Photoprotective skin care compositions comprising sunscreens, structuring agent, and surfactants  
 IN Tanner, Paul Robert; Wagner, Julie Ann; Irwin, Christopher  
 PA The Procter & Gamble Company, USA  
 SO U.S., 13 pp., Cont.-in-part of U.S. 5,759,202.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 IC ICM A61K007-42  
 NCL 424059000  
 CC 62-4 (Essential Oils and Cosmetics)  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6024942	A	20000215	US 1997-986956	19971208
	US 5759524	A	19980602	US 1996-599202	19960209
	CN 1213296	A	19990407	CN 1997-192949	19970124
PRAI	US 1996-599202	A2	19960209		
AB	The present invention relates to leave on, skin care compns., comprising:				

(a) from about 0.1% to about 30% of a sunscreen active, (b) from about 0.5% to about 20% of a hydrophobic, structuring agent, (c) from about 0.2% to about 10% of a hydrophilic surfactant, (d) from about 0.1% to about 5% of a thickening agent, (e) from about 0.1% to about 25% of a skin lightening agent and (f) water. These compns. are useful for providing (i) protection to human skin from the harmful effects of UV radiation and (ii) a skin lightening benefit. Formulations of 3 compns. contg. 6.0% octyl methoxycinnamate are disclosed.

- ST photoprotection skin care sunscreen surfactant thickener
- IT Alcohols, uses  
RL: POF (Polymer in formulation); USES (Uses)  
(C16-18, **ethoxylated**; photoprotective skin care compns.  
comprising sunscreens, structuring agent, and surfactants)
- IT Surfactants  
(amphoteric; photoprotective skin care compns. comprising sunscreens,  
structuring agent, and surfactants)
- IT Surfactants  
(cationic; photoprotective skin care compns. comprising sunscreens,  
structuring agent, and surfactants)
- IT Acrylic polymers, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(crosslinked; photoprotective skin care compns. comprising sunscreens,  
structuring agent, and surfactants)
- IT **Glycols**, biological studies  
**Glycols**, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(ethers, C16-30; photoprotective skin care compns. comprising  
sunscreens, structuring agent, and surfactants)
- IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(**fatty, ethoxylated**, C16-30; photoprotective skin  
care compns. comprising sunscreens, structuring agent, and surfactants)
- IT Ethers, biological studies  
Ethers, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(**glycol**, C16-30; photoprotective skin care compns. comprising  
sunscreens, structuring agent, and surfactants)
- IT Carboxylic acids, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hydroxy, polymers; photoprotective skin care compns. comprising  
sunscreens, structuring agent, and surfactants)
- IT Surfactants  
(ionic; photoprotective skin care compns. comprising sunscreens,  
structuring agent, and surfactants)
- IT Surfactants  
(nonionic; photoprotective skin care compns. comprising sunscreens,  
structuring agent, and surfactants)
- IT Crosslinking agents  
Photoprotectants  
Placenta  
Sunscreens  
Surfactants  
Thickening agents  
(photoprotective skin care compns. comprising sunscreens, structuring  
agent, and surfactants)

IT Polysaccharides, biological studies  
 Quaternary ammonium compounds, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (photoprotective skin care compns. comprising sunscreens, structuring agent, and surfactants)

IT Cosmetics  
 (skin-lightening; photoprotective skin care compns. comprising sunscreens, structuring agent, and surfactants)

IT Surfactants  
 (zwitterionic; photoprotective skin care compns. comprising sunscreens, structuring agent, and surfactants)

IT 50-81-7, L-Ascorbic acid, biological studies 58-95-7, Vitamin e acetate 98-92-0, Vitamin B3 118-56-9 131-57-7, Oxybenzone 150-13-0, p-Aminobenzoic acid 497-76-7, Arbutin 501-30-4, Kojic acid 1314-13-2, Zinc oxide, biological studies 1332-37-2, Iron oxide, biological studies 5466-77-3, 2-Ethylhexyl p-methoxycinnamate 6197-30-4, Octocrylene 6969-49-9, Octyl salicylate 9003-05-8, Polyacrylamide 9003-39-8D, Pvp, crosslinked 13463-67-7, Titanium dioxide, biological studies 15087-24-8, 3-Benzylidene camphor 21245-02-3, 2-Ethylhexyl N,N-dimethyl-p-aminobenzoate 27100-68-1D, Maleic anhydride-vinyl ether copolymer, crosslinked 27503-81-7, 2-Phenylbenzimidazole-5-sulfonic acid 36861-47-9, 3-(4-Methylbenzylidene)camphor 43119-47-7, Tocopheryl nicotinate 56265-46-4 63250-25-9 70356-09-1  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (photoprotective skin care compns. comprising sunscreens, structuring agent, and surfactants)

IT 77-99-6 78-79-5, Isoprene, uses 97-90-5 106-99-0, Butadiene, uses 110-26-9 112-92-5, 1-Octadecanol 557-40-4, Diallylether 661-19-8, Behenyl alcohol 999-55-3, Allyl acrylate 1321-74-0, Divinyl benzene, uses 1464-69-3 3784-12-1, Pentaerythritol monoallyl ether 7370-82-3, Di-(meth)acrylamide 9004-99-3, Polyethylene glycol stearate 9005-00-9 12002-22-1 13818-40-1, Cyanomethylacrylate 26161-33-1, Polyquaternium 37 35429-19-7, Polyquaternium 32 36653-82-4, Cetyl alcohol 41440-38-4, Vinyloxyethylacrylate 67167-59-3, Polyethylene glycol stearate 77221-84-2, Divinyl naphthalene  
 RL: POF (Polymer in formulation); USES (Uses)  
 (photoprotective skin care compns. comprising sunscreens, structuring agent, and surfactants)

RE.CNT 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

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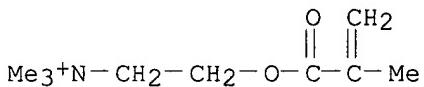
- (17) Anon; EP 0512814 A1 1992 HCAPLUS  
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(67) Zaias; US 5411741 1995 HCAPLUS  
IT 26161-33-1, Polyquaternium 37 35429-19-7, Polyquaternium 32  
RL: POF (Polymer in formulation); USES (Uses)  
(photoprotective skin care compns. comprising sunscreens, structuring agent, and surfactants)  
RN 26161-33-1 HCAPLUS

KOSS 09/881807 Page 8

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1  
CMF C9 H18 N O2 . Cl



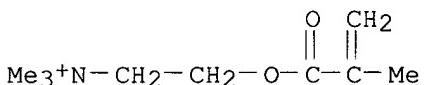
● Cl<sup>-</sup>

RN 35429-19-7 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

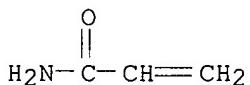
CRN 5039-78-1  
CMF C9 H18 N O2 . Cl



● Cl<sup>-</sup>

CM 2

CRN 79-06-1  
CMF C3 H5 N O



L78 ANSWER 3 OF 27 HCPLUS COPYRIGHT 2002 ACS

AN 2000:106863 HCPLUS

DN 132:156507

TI Hair cosmetics containing Avena sativa extracts and betaine-containing (meth)acrylate polymers

IN Omura, Takayuki

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

CODEN: JKXXAF

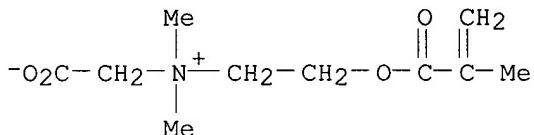
DT Patent  
 LA Japanese  
 IC ICM A61K007-06  
 CC 62-3 (Essential Oils and Cosmetics)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000044437	A2	20000215	JP 1998-228723	19980729
AB	Hair cosmetics contain (A) H <sub>2</sub> O and/or water-sol. org. solvent exts. from Avena sativa seeds or oatmeal, (B) N-methacryloyl ethyl-N,N-dimethylammonium .alpha.-N-methylcarboxybetaine-alkyl methacrylate copolymers (mol. wt. 50,000-500,000) comprising linear random arrangement of structural units CH <sub>2</sub> CR <sub>1</sub> COQC <sub>2</sub> H <sub>4</sub> N+R <sub>2</sub> R <sub>3</sub> R <sub>4</sub> CO <sub>2</sub> - (R <sub>1</sub> = H, Me; R <sub>2</sub> , R <sub>3</sub> = C <sub>1</sub> -4 alkyl; R <sub>4</sub> = C <sub>1</sub> -4 alkylene; Q = O, NH) 20.0-80.0, CH <sub>2</sub> CR <sub>5</sub> CO <sub>2</sub> R <sub>6</sub> (R <sub>5</sub> = H, Me; R <sub>6</sub> = C <sub>1</sub> -4 alkyl, alkenyl) 3.0-50.0, and CH <sub>2</sub> CR <sub>5</sub> CO <sub>2</sub> R <sub>7</sub> (R <sub>5</sub> = same as above; R <sub>7</sub> = C <sub>12</sub> -24 alkyl, alkenyl) 5.0-40.0 wt.%, and (C) C <sub>14</sub> -24 unsatd. fatty alcs. having 1 double bond. A hair prepns. contg. decamethylcyclopentasiloxane 10.0, dimethylpolysiloxane 3.0, 1,3-butylene glycol 2.0, <b>ethoxylated</b> hydrogenated castor oil 2.0, a betaine-contg. methacrylate polymer 2.0, oatmeal ext. 2.0, EtOH 15.0, H <sub>2</sub> O 61.0, perfumes, and jojoba oil 3.0 wt.% gave gloss and smoothness to the hair.				
ST	betaine methacrylate polymer Avena ext hair; <b>fatty alc</b> betaine polymethacrylate hair styling; jojoba alc betaine polymethacrylate hair styling				
IT	Jojoba oil RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
IT	(alcs. from; hair-styling prepns. contg. Avena sativa exts., betaine-contg. (meth)acrylate polymers, and unsatd. fatty alcs.)				
IT	Oatmeal (exts.; hair-styling prepns. contg. Avena sativa exts., betaine-contg. (meth)acrylate polymers, and unsatd. fatty alcs.)				
IT	<b>Alcohols</b> , biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
IT	(fatty, unsatd.; hair-styling prepns. contg. Avena sativa exts., betaine-contg. (meth)acrylate polymers, and unsatd. fatty alcs.)				
IT	Hair preparations (hair-styling prepns. contg. Avena sativa exts., betaine-contg. (meth)acrylate polymers, and unsatd. fatty alcs.)				
IT	Solvents (org., water-sol., in extn.; hair-styling prepns. contg. Avena sativa exts., betaine-contg. (meth)acrylate polymers, and unsatd. fatty alcs.)				
IT	Alcohols, uses RL: NUU (Other use, unclassified); USES (Uses)				
IT	(polyhydric, extn. solvents; hair-styling prepns. contg. Avena sativa exts., betaine-contg. (meth)acrylate polymers, and unsatd. fatty alcs.)				
IT	Betaines RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				
IT	(polymers; hair-styling prepns. contg. Avena sativa exts., betaine-contg. (meth)acrylate polymers, and unsatd. fatty alcs.)				
IT	Oat (seed exts.; hair-styling prepns. contg. Avena sativa exts., betaine-contg. (meth)acrylate polymers, and unsatd. fatty alcs.)				
IT	Alcohols, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)				

(unsatd., C14-24; hair-styling preps. contg. Avena sativa exts., betaine-contg. (meth)acrylate polymers, and unsatd. fatty alcs.)  
IT 57-55-6, Propylene glycol, uses 107-88-0, 1,3-Butylene glycol  
7732-18-5, Water, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(extn. solvent; hair-styling preps. contg. Avena sativa exts., betaine-contg. (meth)acrylate polymers, and unsatd. fatty alcs.)  
IT 166596-97-0 213689-52-2 214122-11-9  
214122-13-1  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(hair-styling preps. contg. Avena sativa exts., betaine-contg. (meth)acrylate polymers, and unsatd. fatty alcs.)  
IT 166596-97-0 213689-52-2 214122-11-9  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(hair-styling preps. contg. Avena sativa exts., betaine-contg. (meth)acrylate polymers, and unsatd. fatty alcs.)  
RN 166596-97-0 HCAPLUS  
CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with butyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

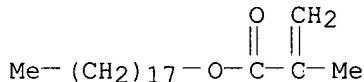
CM 1

CRN 62723-61-9  
CMF C10 H17 N O4



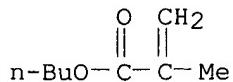
CM 2

CRN 32360-05-7  
CMF C22 H42 O2



CM 3

CRN 97-88-1  
CMF C8 H14 O2



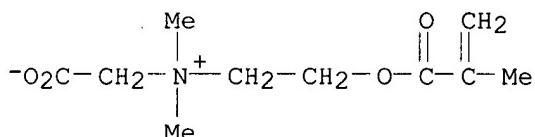
RN 213689-52-2 HCPLUS

CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[ (2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with butyl 2-methyl-2-propenoate and docosyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 62723-61-9

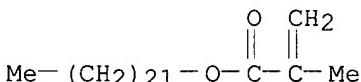
CMF C10 H17 N O4



CM 2

CRN 16669-27-5

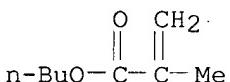
CMF C26 H50 O2



CM 3

CRN 97-88-1

CMF C8 H14 O2



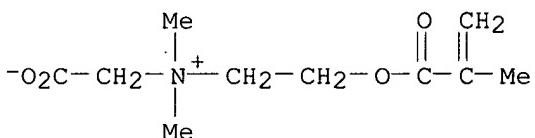
RN 214122-11-9 HCPLUS

CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[ (2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with hexadecyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

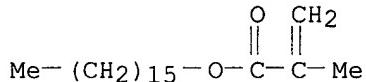
CM 1

CRN 62723-61-9

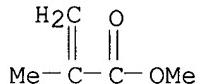
CMF C10 H17 N O4



CM 2

CRN 2495-27-4  
CMF C20 H38 O2

CM 3

CRN 80-62-6  
CMF C5 H8 O2

L78 ANSWER 4 OF 27 HCPLUS COPYRIGHT 2002 ACS  
 AN 1999:788350 HCPLUS  
 DN 132:26624  
 TI Hair dye **compositions** comprising a direct cationic dye and a substantive cationic or amphoteric polymer  
 IN Rondeau, Christine  
 PA Oreal S. A., Fr.  
 SO Fr. Demande, 68 pp.  
 CODEN: FRXXBL  
 DT Patent  
 LA French  
 IC ICM A61K007-13  
 ICS A61K007-135  
 CC 62-3 (Essential Oils and **Cosmetics**)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR-2776923	A1	19991008	FR 1998-4234	19980406
	EP 953334	A2	19991103	EP 1999-400711	19990323
	EP 953334	A3	20000308		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	ZA 9902429	A	19991008	ZA 1999-2429	19990330
	AU 9922540	A1	19991014	AU 1999-22540	19990330
	AU 722097	B2	20000720		
	CN 1233466	A	19991103	CN 1999-107305	19990401
	JP 11343218	A2	19991214	JP 1999-97574	19990405
	BR 9901590	A	20000530	BR 1999-1590	19990405
	RU 2160087	C1	20001210	RU 1999-107636	19990405
	US 2002046432	A1	20020425	US 1999-287176	19990406
PRAI	FR 1998-4234	A	19980406		
OS	MARPAT 132:26624				
AB	The title hair dye <b>compns.</b> are disclosed. A hair dye contained Me pyridinium N,N-dimethylbenzylidene deriv. 0.09, a quaternary ammonium polymer 1.0, nonyl phenol contg. 9 mols of ethylene oxide 8.0,				

2-amino-2-Me propanol q.s. pH = 9, and water q.s. 100 g. The compn. is applied on the hair for 30 min, then is washed with shampoo and dried to obtain a strong copper color.

ST hair direct cationic dye polymer

IT Polyelectrolytes  
(amphoteric; hair dye compns. comprising direct cationic dye and substantive cationic or amphoteric polymer)

IT Polyelectrolytes  
(cationic; hair dye compns. comprising direct cationic dye and substantive cationic or amphoteric polymer)

IT Dyes  
(direct, cationic; hair dye compns. comprising direct cationic dye and substantive cationic or amphoteric polymer)

IT Hair preparations  
(dyes; hair dye compns. comprising direct cationic dye and substantive cationic or amphoteric polymer)

IT Oxidizing agents  
(hair dye compns. comprising direct cationic dye and substantive cationic or amphoteric polymer)

IT Paraffin oils  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(hair dye compns. comprising direct cationic dye and substantive cationic or amphoteric polymer)

IT Solvents  
(org.; hair dye compns. comprising direct cationic dye and substantive cationic or amphoteric polymer)

IT Quaternary ammonium compounds, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(polymers; hair dye compns. comprising direct cationic dye and substantive cationic or amphoteric polymer)

IT 161329-39-1  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(hair dye compns. comprising direct cationic dye and substantive cationic or amphoteric polymer)

IT 6687-56-5 9004-34-6, Cellulose, biological studies **26161-33-1**  
**35429-19-7** 39838-87-4 42476-20-0 53694-17-0 54940-81-7  
62163-15-9 64651-39-4 68259-00-7 68912-02-7 73447-48-0  
75655-00-4 77061-58-6 83950-26-9 84912-24-3 89923-52-4  
92888-19-2 93940-65-9 97404-02-9 97406-09-2 109220-25-9  
143084-49-5 160598-04-9 161328-83-2 161328-85-4 161328-86-5  
161328-87-6 161328-89-8 161328-91-2 161328-92-3 161328-94-5  
161328-95-6 161328-96-7 161328-99-0 161329-01-7 161329-02-8  
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161329-09-5 161329-15-3 161329-16-4 161329-17-5 161329-18-6  
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161329-38-0 161329-40-4 161329-42-6 161329-43-7 161329-44-8  
161329-45-9 161329-47-1 161329-49-3 167382-76-5 167382-77-6  
167382-78-7 167382-79-8 167382-80-1 167382-82-3 167382-83-4  
167382-87-8 167382-88-9 167382-95-8 167382-96-9 167382-97-0  
167382-98-1 167382-99-2 178822-03-2 178822-05-4 211050-61-2  
232284-18-3 **251352-56-4**  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(hair dye compns. comprising direct cationic dye and substantive cationic or amphoteric polymer)

IT **26161-33-1 35429-19-7 251352-56-4**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(hair dye compns. comprising direct cationic dye and  
substantive cationic or amphoteric polymer)

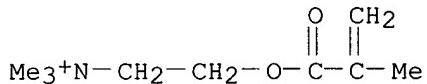
RN 26161-33-1 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[ (2-methyl-1-oxo-2-propenyl)oxy]-,  
chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

CMF C9 H18 N O2 . Cl



● Cl<sup>-</sup>

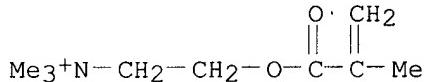
RN 35429-19-7 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[ (2-methyl-1-oxo-2-propenyl)oxy]-,  
chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

CMF C9 H18 N O2 . Cl

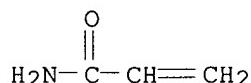


● Cl<sup>-</sup>

CM 2

CRN 79-06-1

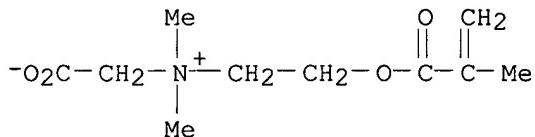
CMF C3 H5 N O



RN 251352-56-4 HCAPLUS

CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[ (2-methyl-1-oxo-2-  
propenyl)oxy]-, inner salt, polymer with N,N,N-trimethyl-2-[ (2-methyl-1-  
oxo-2-propenyl)oxy]ethanaminium methyl sulfate (9CI) (CA INDEX NAME)

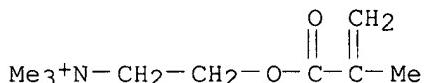
CM 1

CRN 62723-61-9  
CMF C10 H17 N O4

CM 2

CRN 6891-44-7  
CMF C9 H18 N O2 . C H3 O4 S

CM 3

CRN 33611-56-2  
CMF C9 H18 N O2

CM 4

CRN 21228-90-0  
CMF C H3 O4 SMe-O-SO<sub>3</sub><sup>-</sup>

L78 ANSWER 5 OF 27 HCPLUS COPYRIGHT 2002 ACS  
 AN 1999:763689 HCPLUS  
 DN 132:15482  
 TI Hair dye composition containing a direct cationic dye and a substantive polymer  
 IN Lang, Gerard; Cotteret, Jean  
 PA L'Oreal, Fr.  
 SO Eur. Pat. Appl., 49 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA French  
 IC ICM A61K007-13  
 CC 62-4 (Essential Oils and Cosmetics)  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 960617	A2	19991201	EP 1999-400978	19990421
EP 960617	A3	20000308		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO

FR 2778845	A1	19991126	FR 1998-6549	19980525
FR 2778845	B1	20010504		
AU 9923918	A1	19991202	AU 1999-23918	19990423
AU 726541	B2	20001109		
ZA 9902935	A	19991026	ZA 1999-2935	19990426
BR 9902311	A	20000530	BR 1999-2311	19990507
CN 1236608	A	19991201	CN 1999-107017	19990524
RU 2166311	C2	20010510	RU 1999-110739	19990524
JP 2000007542	A2	20000111	JP 1999-145014	19990525
US 2002007521	A1	20020124	US 1999-318209	19990525

PRAI FR 1998-6549 A 19980525

OS MARPAT 132:15482

AB Hair dye compn. contg. a direct cationic dye and a substantive cationic or amphoteric polymer. A hair dye contained 2(p-dimethylaminophenyl)azo-4-methylpyridine-N-oxide 0.12, ethoxyalated nonyl phenol 8.0, a quaternary ammonium polymer 1.0, ethanol 10.0, 2-amino-2-methyl-1-propanol q.s., and water q.s. 100.0g. The compn. is applied on the hair for 30 min, then the hair is washed, shampooed, and dried to obtain a strong red color.

ST hair direct cationic dye polymer

IT Polyelectrolytes  
(amphoteric; hair dye compn. contg. direct cationic dye and substantive polymer)

IT Polyelectrolytes  
(cationic; hair dye compn. contg. direct cationic dye and substantive polymer)

IT Dyes  
(direct, cationic; hair dye compn. contg. direct cationic dye and substantive polymer)

IT Hair preparations  
(dyes; hair dye compn. contg. direct cationic dye and substantive polymer)

IT Oxidizing agents  
(hair dye compn. contg. direct cationic dye and substantive polymer)

IT Solvents  
(org.; hair dye compn. contg. direct cationic dye and substantive polymer)

IT Quaternary ammonium compounds, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(polymers; hair dye compn. contg. direct cationic dye and substantive polymer)

IT 7077-55-6 7267-43-8 7687-09-4 7687-11-8 26062-79-3,  
Dimethyldiallylammonium chloride homopolymer **26161-33-1**  
**35429-19-7** 41338-82-3 41338-83-4 41338-95-8 41338-98-1  
41339-00-8 51473-40-6 51473-50-8 52132-00-0 52132-02-2  
52132-03-3 52132-04-4 52132-05-5 52132-06-6 52132-11-3  
52132-12-4 52132-13-5 52132-14-6 52132-15-7 52132-16-8  
52132-17-9 52132-18-0 52132-19-1 52132-20-4 52132-21-5  
52132-22-6 52132-23-7 52132-24-8 52132-25-9 52132-26-0  
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59405-59-3 59405-61-7 59405-65-1 59405-67-3 59642-65-8  
59642-67-0 59642-69-2 59642-73-8 59642-75-0 59642-77-2  
59642-93-2 59642-95-4 59643-09-3 59643-10-6 93569-38-1  
93569-39-2 251352-40-6 251352-41-7 251352-42-8 251352-43-9

251352-44-0 251352-45-1 251352-46-2 251352-47-3 251352-48-4  
 251352-49-5 251352-50-8 251352-53-1 251352-55-3 **251352-56-4**  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(hair dye compn. contg. direct cationic dye and substantive  
 polymer)

IT **26161-33-1 35429-19-7 251352-56-4**  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(hair dye compn. contg. direct cationic dye and substantive  
 polymer)

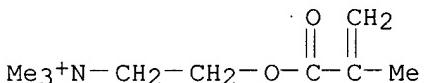
RN 26161-33-1 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,  
 chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

CMF C9 H18 N O2 . Cl



● Cl<sup>-</sup>

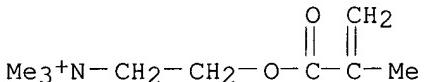
RN 35429-19-7 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,  
 chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

CMF C9 H18 N O2 . Cl

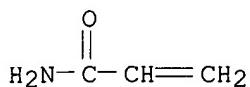


● Cl<sup>-</sup>

CM 2

CRN 79-06-1

CMF C3 H5 N O



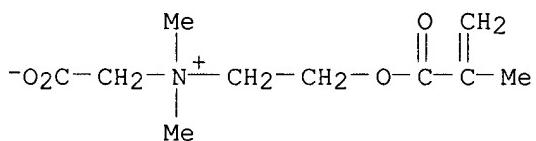
RN 251352-56-4 HCPLUS

CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[ (2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with N,N,N-trimethyl-2-[ (2-methyl-1-oxo-2-propenyl)oxy]ethanaminium methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 62723-61-9

CMF C10 H17 N O4



CM 2

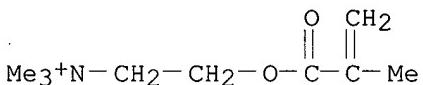
CRN 6891-44-7

CMF C9 H18 N O2 . C H3 O4 S

CM 3

CRN 33611-56-2

CMF C9 H18 N O2



CM 4

CRN 21228-90-0

CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

L78 ANSWER 6 OF 27 HCPLUS COPYRIGHT 2002 ACS

AN 1999:686550 HCPLUS

DN 131:303230

TI Customization of hair care formulations

IN Rath, Maureen L.; Hlavac, Wallace R.

PA Tiro Industries Incorporated, USA

SO U.S., 13 pp., Cont. of U.S. Ser. No. 969,492.

CODEN: USXXAM

DT Patent  
 LA English  
 IC ICM A61K007-075  
     ICS A61K007-06  
 NCL 424070110  
 CC 62-3 (Essential Oils and Cosmetics)  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	<u>US 5972322</u>	A	<u>19991026</u>	US 1999-304246	19990503
	<u>US 5993792</u>	A	<u>19991130</u>	US 1997-969492	19971113
PRAI	US 1997-969492		19971113		

AB The invention provides a system for prep. a hair shampoo, conditioner, and styling compn., wherein each system is composed of sep. components that can be combined as desired by the user to provide customized hair care formulations. The systems include a water-thin base compn., a thickening compn., and optional enhancing additives, wherein each compn. is sep. packaged. The viscosity of the end-product shampoo, conditioner, or styling compn. can be varied, from a thick, pourable liq. to a thicker, pasty material depending on the amt. of thickener that is added to the base. An optional styling compn. was prep'd. by combining the ingredients shown below. The product contained deionized water 75.0, Germaben II 1.0, 20% aq. soln. of Gafquat 755N 8.0, and 50% aq. soln. of PVP/VA W-35 16.0%.

ST hair formulation thickener vitamin additive

IT Alcohols, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(C16-18, ethoxylated; customization of hair care formulations)

IT Skin preparations (pharmaceutical)

(astringents; customization of hair care formulations)

IT Hair preparations

(conditioners; customization of hair care formulations)

IT Antibacterial agents

Antioxidants

Dyes

Hair preparations

Sequestering agents

Shampoos

Solubilizers

Thickening agents

Viscosity

(customization of hair care formulations)

IT Chelates

Quaternary ammonium compounds, biological studies

Vitamins

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

(Uses)

(customization of hair care formulations)

IT Aloe barbadensis

Basil

Birch (Betula)

Cola (plant)

Cucumber (Cucumis sativus)

Lavender (Lavandula)

Marigold

Matricaria

Peppermint (Mentha piperita)

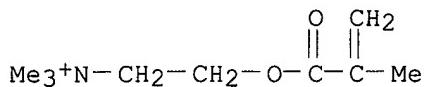
Sunflower

Witch hazel

(exts. of; customization of hair care formulations)  
IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(fatty ethers; customization of hair care formulations)  
IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(fatty, ethoxylated, C12-18; customization of hair  
care formulations)  
IT Cosmetics  
(moisturizers; customization of hair care formulations)  
IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(polyhydric; customization of hair care formulations)  
IT 58-95-7, Tocopheryl acetate 67-97-0, Cholecalciferol 79-81-2, Retinyl  
palmitate 112-02-7, Carsoquat CT 429 112-03-8,  
Stearyltrimethylammonium chloride 1812-53-9, Varisoft 432PG 5306-85-4,  
Dimethyl isosorbide 9002-92-0, Laureth-23 9004-99-3D, C16-18- and  
iso-C16-18-alkyl ethers 24938-91-8, Salcare-SC95 26161-33-1  
26590-05-6, Merquat 550 35429-19-7, Salcare-SC92 55008-57-6,  
Gafquat 755N 69364-63-2, Isoceteth 20 148093-12-3, Sepigel 305  
155076-61-2, Salcare-SC91 162534-65-8, Celquat SC-240 190606-03-2,  
Sepigel 501  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(customization of hair care formulations)  
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD  
RE.  
(1) Anon; WO 9725963 1997 HCPLUS  
(2) Casperson; US 5376146 1994 HCPLUS  
(3) Ciaudelli; US 5084270 1992 HCPLUS  
(4) Darkwa; US 5077042 1991 HCPLUS  
(5) Darkwa; US 5293885 1994 HCPLUS  
(6) Ehrlich; US 4099912 1978.  
(7) Ehrlich; US 4365853 1982  
(8) Hagan; US 5108751 1992 HCPLUS  
(9) Hagan; US 5227503 1993 HCPLUS  
(10) Lange; US 5132107 1992 HCPLUS  
(11) McDonough; US 3577528 1971  
(12) Nicoll; US 5196187 1993 HCPLUS  
(13) Parah; US 5254343 1993 HCPLUS  
(14) Spiegel; US 5045308 1991 HCPLUS  
(15) Syed; US 5824295 1998 HCPLUS  
IT 26161-33-1 35429-19-7, Salcare-SC92  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(customization of hair care formulations)  
RN 26161-33-1 HCPLUS  
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,  
chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1  
CMF C9 H18 N O2 . Cl



● Cl<sup>-</sup>

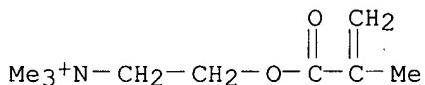
RN 35429-19-7 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

CMF C9 H18 N O2 . Cl

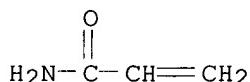


● Cl<sup>-</sup>

CM 2

CRN 79-06-1

CMF C3 H5 N O



L78 ANSWER 7 OF 27 HCPLUS COPYRIGHT 2002 ACS

AN 1999:468551 HCPLUS

DN 131:120598

TI Two-part hair dye **compositions** containing polyether polyurethanes and conditioning agents

IN Casperson, Stephen; Murphy, Bryan; Khan, Zubaida; Pohl, Stanley

PA Bristol-Myers Squibb Company, USA

SO PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K007-13

CC 62-3 (Essential Oils and **Cosmetics**)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 9936047 A1 19990722 WO 1998-US26122 19981209  
 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,  
 DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,  
 KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,  
 NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,  
 UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,  
 FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,  
 CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 US 6156076 A 20001205 US 1998-8209 19980116  
 CA 2317487 AA 19990722 CA 1998-2317487 19981209  
 AU 9916337 A1 19990802 AU 1999-16337 19981209  
 BR 9814008 A 20001010 BR 1998-14008 19981209  
 EP 1047375 A1 20001102 EP 1998-960833 19981209  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, FI  
 JP 2002509099 T2 20020326 JP 2000-539823 19981209  
 PRAI US 1998-8209 A 19980116  
 WO 1998-US26122 W 19981209  
 AB The present invention describes a two-part oxidative hair dye compn. which comprises in one or both component parts at least one polyether polyurethane in combination with at least one cationic conditioning agent. The two component parts of the compn. comprise a dye component compn., which includes primary intermediates and couplers, and a developing component compn., which includes an oxidizing agent, such as hydrogen peroxide. It has surprisingly been found by the present inventors that nonionic polyether polyurethane polymers and cationic conditioning agents contained in the oxidative hair dye compns. of the present invention impart and significantly enhance addnl. conditioning and rheol. benefits to the hair. Other components commonly used in oxidative hair dye products can be added to one or both component parts of the compns. of the present invention. After mixing the two component compns., the resulting hair dye compn. mixt. is thick, conveniently applied, and provides superior rheol. and conditioning properties to the hair. A dye component compn. was prep'd. contg., among other ingredients, behentrimonium chloride, cetyl alc., cocamide MEA, m-aminophenol, 1-naphthol, Aculyn 46, and ammonium hydroxide. A developer (oxidizer) component was prep'd. contg., among other ingredients, C12-15 Pareth-3, Steareth 21, PEG-50 tallow amide, Oleth-5, oleyl alc., cetyl alc., Etidronic acid, Simethicone, and di-Na EDTA.  
 ST hair dye two part polyether polyurethane; conditioning agent hair dye  
 IT Alcohols, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (C12-15, ethoxylated; two-part hair dye compns. contg. polyether polyurethanes and conditioning agents)  
 IT Alcohols, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (C16-18, ethoxylated; two-part hair dye compns. contg. polyether polyurethanes and conditioning agents)  
 IT Quaternary ammonium compounds, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (coco alkylethyldimethyl, Et sulfates; two-part hair dye compns. contg. polyether polyurethanes and conditioning agents)  
 IT Hair preparations  
 (conditioners; two-part hair dye compns. contg. polyether

polyurethanes and conditioning agents)

IT Quaternary ammonium compounds, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (dicoco alkylidimethyl, chlorides; two-part hair dye compns.  
     contg. polyether polyurethanes and conditioning agents)

IT Hair preparations  
     (dyestuffs; two-part hair dye compns. contg. polyether  
     polyurethanes and conditioning agents)

IT Polyurethanes, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (polyether-; two-part hair dye compns. contg. polyether  
     polyurethanes and conditioning agents)

IT Quaternary ammonium compounds, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (trimethylsoya alkyl, chlorides; two-part hair dye compns.  
     contg. polyether polyurethanes and conditioning agents)

IT Quaternary ammonium compounds, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (two-part hair dye compns. contg. polyether polyurethanes and  
     conditioning agents)

IT 9005-25-8, Starch, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (polyether-polyurethane modified with; two-part hair dye compns  
     . contg. polyether polyurethanes and conditioning agents)

IT 90-15-3, 1-Naphthol 95-70-5, p-Toluenediamine 106-50-3,  
 1,4-Benzenediamine, biological studies 107-64-2,  
 Distearyldimethylammonium chloride 108-45-2, 1,3-Benzenediamine,  
 biological studies 108-46-3, Resorcinol, biological studies 112-03-8,  
 Stearyltrimethylammonium chloride 123-30-8, p-Aminophenol 591-27-5  
 608-25-3, 2-Methylresorcinol 1812-53-9, Dicetyltrimethylammonium chloride  
 2835-95-2, 4-Amino-2-hydroxytoluene 2835-96-3, 4-Amino-2-methylphenol  
 2835-99-6, 4-Amino-3-Methylphenol 7469-77-4, 2-Methyl-1-naphthol  
 7575-35-1, N,N-Bis(2-hydroxyethyl)-p-phenylenediamine 9002-92-0, Laureth  
 2 14572-93-1, 2-(2,4-Diaminophenyl)ethanol 17301-53-0, Behentrimonium  
 chloride 26006-22-4, Polyquaternium 5 26027-38-3 26062-79-3,  
 Polyquaternium 6 53694-17-0, Polyquaternium 22 83763-47-7 93841-24-8  
 193487-42-2, Aculyn 44 233265-18-4, Aculyn 46  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (two-part hair dye compns. contg. polyether polyurethanes and  
     conditioning agents)

IT 56-81-5, 1,2,3-Propanetriol, biological studies 57-55-6,  
 1,2-Propanediol, biological studies 64-17-5, Ethanol, biological studies  
 67-63-0, Isopropanol, biological studies 107-41-5, Hexylene glycol  
 111-90-0, Carbitol 124-68-5 141-43-5, Monoethanolamine, biological  
 studies 497-19-8, Sodium carbonate, biological studies 7664-41-7,  
 Ammonia, biological studies  
 RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);  
 BIOL (Biological study); USES (Uses)  
     (two-part hair dye compns. contg. polyether polyurethanes and  
     conditioning agents)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

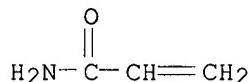
RE

- (1) Carlos, D; WO 9724105 A 1997 HCAPLUS
- (2) Carlos, D; WO 9724106 A 1997 HCAPLUS

(3) Carlos, D; WO 9724107 A 1997 HCPLUS  
 (4) Carlos, D; WO 9827941 A 1998 HCPLUS  
 IT 26006-22-4, Polyquaternium 5  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (two-part hair dye compns. contg. polyether polyurethanes and  
 conditioning agents)  
 RN 26006-22-4 HCPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl  
 sulfate, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 79-06-1  
 CMF C3 H5 N O

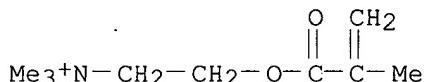


CM 2

CRN 6891-44-7  
 CMF C9 H18 N O2 . C H3 O4 S

CM 3

CRN 33611-56-2  
 CMF C9 H18 N O2



CM 4

CRN 21228-90-0  
 CMF C H3 O4 S

$\text{Me}-\text{O}-\text{SO}_3^-$

L78 ANSWER 8 OF 27 HCPLUS COPYRIGHT 2002 ACS  
 AN 1999:464170 HCPLUS  
 DN 131:106602  
 TI Oxidative hair dye compositions containing a laccase and  
 polymers  
 IN Lang, Gerard; Cotteret, Jean  
 PA L'Oreal, Fr.  
 SO PCT Int. Appl., 31 pp.  
 CODEN: PIXXD2  
 DT Patent

LA French  
 IC ICM A61K007-13  
 CC 62-3 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9936045	A1	19990722	WO 1999-FR38	19990112
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	FR 2773472	A1	19990716	FR 1998-249	19980113
	CA 2317945	AA	19990722	CA 1999-2317945	19990112
	AU 9919741	A1	19990802	AU 1999-19741	19990112
	AU 729268	B2	20010201		
	EP 1041957	A1	20001011	EP 1999-900519	19990112
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	BR 9907141	A	20001031	BR 1999-7141	19990112
	JP 2002509097	T2	20020326	JP 2000-539821	19990112
PRAI	FR 1998-249	A	19980113		
	WO 1999-FR38	W	19990112		

AB An oxidative hair dye compn. consists of at least 1 laccase-type enzyme, 1 polymer thickener selected from amphiphilic nonionic polymers comprising at least 1 fatty chain and at least one hydrophilic unit, anionic amphiphilic polymers comprising at least 1 hydrophilic unit and at least 1 fatty chain unit. Thus, a hair dye compn contained laccase 1.8, Oramix CG-110 8.0, p-phenylenediamine 0.254, 2,4-diaminophenoxyethanol-HCl 0.260, Dapral T212 1.0 and water qs 100 g.

ST oxidative hair dye laccase polymer

IT Polyelectrolytes

(anionic; oxidative hair dye compns. contg. laccase and polymers)

IT Hair preparations

(dyes, oxidative; oxidative hair dye compns. contg. laccase and polymers)

IT Agaricus bisporus

Anacardiaceae

Apple

Aspergillus nidulans

Avocado (Persea americana)

Banana (Musa)

Botrytis cinerea

Carrot

Catharanthus roseus

Ceriporiopsis subvermispora

Cerrena unicolor

Chaetomium thermophilum

Cladosporium cladosporioides

Coffee (Coffea)

Coprinus cinereus

Dichomitus squalens

Fomes fomentarius

Ganoderma lucidum

Ginkgo biloba

Glomerella cingulata  
 Heterobasidion annosum  
 Horse chestnut (Aesculus)  
 Iris (plant)  
 Lacquer tree  
 Lactarius piperatus  
 Maple (Acer pseudoplatanus)  
 Monotropa hypopitys  
 Myceliophthora thermophila  
 Neurospora crassa  
 Panaeolus papilionaceus  
 Panaeolus sphinctrinus  
 Peach (Prunus persica)  
 Phellinus noxius  
 Pistacia palaestina  
 Pleurotus ostreatus  
 Podocarpaceae  
 Podospora anserina  
 Polyporus pinsitus  
 Potato (Solanum tuberosum)  
 Pyricularia oryzae  
 Rhizoctonia solani  
 Rigidoporus lignosus  
 Rosemary  
 Russula delica  
 Schizophyllum commune  
 Scytalidium  
 Thelephora terrestris  
 Thickening agents  
 Trametes hirsuta  
 Trametes versicolor  
 Vinca minor  
     (oxidative hair dye compns. contg. laccase and polymers)

IT Polymers, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (oxidative hair dye compns. contg. laccase and polymers)

IT Amines, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (phenylalkyl; oxidative hair dye compns. contg. laccase and polymers)

IT 95-54-5, o-Phenylenediamine, biological studies 95-55-6, o-Aminophenol  
 106-50-3, 1,4-Benzenediamine, biological studies 108-45-2,  
 1,3-Benzenediamine, biological studies 123-30-8, p-Aminophenol  
 591-27-5 9000-01-5, Gum arabic 9000-28-6, Ghatti gum 9000-30-0, Guar  
 gum 9000-36-6, Karaya gum 9000-65-1, Tragacanth gum 9004-34-6D,  
 Cellulose, derivs., biological studies 9005-00-9, Steareth 25212-88-8,  
 Ethyl acrylate-methacrylic acid copolymer 26100-47-0,  
 Acrylamide-ammonium acrylate copolymer 26161-33-1,  
 2-Trimethylammonioethyl methacrylate chloride polymer 27119-07-9,  
 Poly(2-acrylamido-2-methylpropanesulfonic acid) 28214-57-5,  
 Poly(ammonium acrylate) 35429-19-7, Acrylamide-  
     Trimethylammonioethylmethacrylate chloride copolymer 39464-87-4,  
 Scleroglucan 40623-73-2, Acrylamide-AMPS copolymer 80498-15-3, Laccase  
 134499-37-9, Carbopol 954 138860-57-8, DApral T212  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
     (oxidative hair dye compns. contg. laccase and polymers)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Grollier, J; US 4904275 A 1990 HCPLUS  
 (2) Oreal; FR 2694018 A 1994 HCPLUS  
 (3) Perma Sa; EP 0504005 A 1992 HCPLUS

IT 26161-33-1, 2-T trimethylammonioethyl methacrylate chloride polymer  
 35429-19-7, Acrylamide-T trimethylammonioethylmethacrylate chloride copolymer

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(oxidative hair dye compns. contg. laccase and polymers)

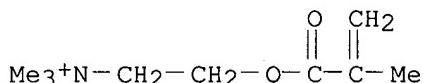
RN 26161-33-1 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

CMF C9 H18 N O2 . Cl

● Cl<sup>-</sup>

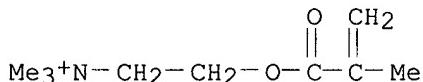
RN 35429-19-7 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

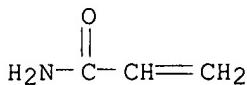
CMF C9 H18 N O2 . Cl

● Cl<sup>-</sup>

CM 2

CRN 79-06-1

CMF C3 H5 N O



L78 ANSWER 9 OF 27 HCPLUS COPYRIGHT 2002 ACS

AN 1999:464164 HCPLUS

DN 131:120589

TI Hair dye **composition** containing a laccase

IN Lang, Gerard; Cotteret, Jean

PA L'Oreal, Fr.

SO PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DT Patent

LA French

IC ICM A61K007-13

CC 62-3 (Essential Oils and **Cosmetics**)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9936035	A1	19990722	WO 1998-FR2794	19981218
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	FR 2773477	A1	19990716	FR 1998-254	19980113
	FR 2773477	B1	20010223		
	CA 2318321	AA	19990722	CA 1998-2318321	19981218
	AU 9917666	A1	19990802	AU 1999-17666	19981218
	AU 729022	B2	20010125		
	BR 9814740	A	20001017	BR 1998-14740	19981218
	EP 1047377	A1	20001102	EP 1998-962518	19981218
	EP 1047377	B1	20010627		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	AT 202469	E	20010715	AT 1998-962518	19981218
	ES 2161074	T3	20011116	ES 1998-962518	19981218
	JP 2002509087	T2	20020326	JP 2000-539811	19981218
PRAI	FR 1998-254	A	19980113		
	WO 1998-FR2794	W	19981218		
AB	The invention concerns a ready-to-use <b>compn.</b> for dyeing human keratinous fibers and more particularly human hair, comprising (a) at least an enzyme such as laccase; (b) at least a cationic substance or particular amphoteric polymer; (c) at least an <b>oxidn.</b> coloring <b>agent</b> , as well as the dyeing methods using said <b>compn.</b>				
ST	hair dye laccase formulation				
IT	Polysiloxanes, biological studies				
	RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)				
	(3-[2-aminoethyl]amino)-2-methylpropyl Me, di-Me; hair dye <b>compn.</b> contg. a laccase)				
IT	Polysiloxanes, biological studies				
	RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP				

(Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
([(aminoethyl)amino]propyl hydroxy, di-Me; hair dye compn.  
contg. a laccase)

IT Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(cationic; hair dye compn. contg. a laccase)

IT Polymers, biological studies  
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(co-, dimethyldiallylammonium halide; hair dye compn. contg.  
a laccase)

IT Hair preparations  
(dyes; hair dye compn. contg. a laccase)

IT Oxidation  
(enzymic; hair dye compn. contg. a laccase)

IT Antioxidants  
Buffers  
Coupling agents  
Dispersing agents  
Opacifiers  
Perfumes  
Permeation enhancers  
Preservatives  
Sequestering agents  
Surfactants  
Thickening agents  
(hair dye compn. contg. a laccase)

IT Enzymes, biological studies  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(hair dye compn. contg. a laccase)

IT Keratins  
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)  
(hair dye compn. contg. a laccase)

IT Paraffin oils  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(hair dye compn. contg. a laccase)

IT Polymers, biological studies  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(hair dye compn. contg. a laccase)

IT Vitamins  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(hair dye compn. contg. a laccase)

IT Chlorophylls, biological studies  
RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)  
(laccases of plants producing; hair dye compn. contg. a  
laccase)

IT Agaricus bisporus

## Anacardiaceae

Apple

Aspergillus nidulans

Avocado (*Persea americana*)Banana (*Musa*)

Botrytis cinerea

Carrot

Catharanthus roseus

Ceriporiopsis subvermispora

Cerrena unicolor

Chaetomium thermophilum

Cladosporium cladosporioides

Coffee (*Coffea*)

Coprinus cinereus

Dichomitus squalens

Fomes fomentarius

Ganoderma lucidum

Ginkgo biloba

Glomerella cingulata

Heterobasidion annosum

Horse chestnut (*Aesculus*)

Iris (plant)

Lacquer tree

Lactarius piperatus

Maple (*Acer pseudoplatanus*)

Monotropa hypopitys

Myceliophthora thermophila

Neurospora crassa

Panaeolus papilionaceus

Panaeolus sphinctrinus

Peach (*Prunus persica*)

Phellinus noxius

Pistacia palaestina

Pleurotus ostreatus

Podocarpaceae

Podospora anserina

Polyporus pinsitus

Potato (*Solanum tuberosum*)

Pyricularia oryzae

Rhizoctonia solani

Rigidoporus lignosus

Rosemary

Russula delica

Schizophyllum commune

Scytalidium

Thelephora terrestris

Trametes hirsuta

Trametes versicolor

Vinca minor

(laccases of; hair dye compn. contg. a laccase)

IT Solvents

(org.; hair dye compn. contg. a laccase)

IT 2835-95-2, 2-Methyl 5-aminophenol

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)

(coupling agent; hair dye compn. contg. a laccase)

IT 26161-33-1, Poly(methacryloyloxyethyltrimethylammonium chloride)

35429-19-7

RL: BUU (Biological use, unclassified); PEP (Physical, engineering or

chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(cross-linked; hair dye compn. contg. a laccase)

IT 9003-99-0, Peroxidase 9055-15-6, Oxidoreductase  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(hair dye compn. contg. a laccase)

IT 80498-15-3, Laccase  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(hair dye compn. contg. a laccase)

IT 88-12-0D, polymeric derivs. 89-25-8 90-15-3, .alpha.-Naphthol  
95-54-5D, 1,2-Benzenediamine, derivs., biological studies 95-55-6D,  
derivs. 95-88-5, 4-Chloro-1,3-dihydroxybenzene 106-50-3D,  
1,4-Benzenediamine, derivs., biological studies 108-26-9 108-45-2,  
1,3-Benzenediamine, biological studies 108-45-2D, 1,3-Benzenediamine,  
derivs., biological studies 108-46-3, 1,3-Dihydroxybenzene, biological  
studies 108-46-3D, 1,3-Benzenediol, derivs., biological studies  
123-30-8D, derivs. 533-31-3, Sesamol 591-27-5, 3-Aminophenol  
591-27-5D, derivs. 608-25-3, 1,3-Dihydroxy-2-methylbenzene 2380-86-1,  
6-Hydroxyindole 4664-16-8, 2,6-Dihydroxy-4-methylpyridine 53694-17-0,  
Merquat 280 55302-96-0 66422-95-5, 2,4-Diaminophenoxyethanol  
dihydrochloride 70643-19-5 81892-72-0 83763-47-7 93846-05-0  
197179-33-2, Oramix CG110 231958-91-1  
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); PEP  
(Physical, engineering or chemical process); BIOL (Biological study); PROC  
(Process); USES (Uses)  
(hair dye compn. contg. a laccase)

IT 88-12-0D, cationic copolymers 26590-05-6, Acrylamide-  
diallyldimethylammonium chloride copolymer 57564-45-1 98616-25-2,  
Polyquaternium-24 223104-80-1  
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or  
chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(hair dye compn. contg. a laccase)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Oreal; EP 0557203 A 1993 HCPLUS
- (2) Oreal; FR 2694018 A 1994 HCPLUS
- (3) Oreal; EP 0673641 A 1995 HCPLUS
- (4) Perma Sa; EP 0504005 A 1992 HCPLUS

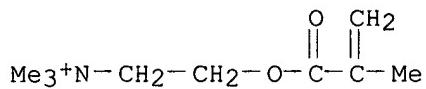
IT 26161-33-1, Poly(methacryloyloxyethyltrimethylammonium chloride)  
35429-19-7  
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or  
chemical process); BIOL (Biological study); PROC (Process); USES (Uses)  
(cross-linked; hair dye compn. contg. a laccase)

RN 26161-33-1 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,  
chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1  
CMF C9 H18 N O2 . Cl



● Cl<sup>-</sup>

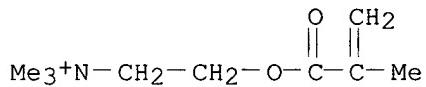
RN 35429-19-7 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[ (2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

CMF C9 H18 N O2 . Cl

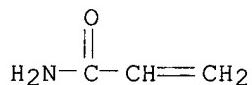


● Cl<sup>-</sup>

CM 2

CRN 79-06-1

CMF C3 H5 N O



L78 ANSWER 10 OF 27 HCPLUS COPYRIGHT 2002 ACS

AN 1999:244543 HCPLUS

DN 130:301478

TI Oxidative hair dye **compositions** containing oxidoreductase-type enzymes and polymers

IN De La Mettrie, Roland; Cotteret, Jean; De Labrey, Arnaud; Maubru, Mireille

PA L'Oreal, Fr.

SO PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DT Patent

LA French

IC ICM A61K007-13

CC 62-3 (Essential Oils and **Cosmetics**)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 9917727 A1 19990415 WO 1998-FR2026 19980922  
 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,  
 DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,  
 KP, KR, KZ, LC, LK, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,  
 NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,  
 UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,  
 FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,  
 CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
 FR 2769217 A1 19990409 FR 1997-12357 19971003  
 FR 2769217 B1 20000317  
 AU 9892695 A1 19990427 AU 1998-92695 19980922  
 AU 719804 B2 20000518  
 BR 9806261 A 20000125 BR 1998-6261 19980922  
 EP 975318 A1 20000202 EP 1998-945350 19980922  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, FI  
 JP 2000507983 T2 20000627 JP 1999-521107 19980922  
 ZA 9809001 A 19990412 ZA 1998-9001 19981002  
 US 6251145 B1 20010626 US 1999-319199 19990602  
 US 2002004959 A1 20020117 US 2001-832878 20010412  
 PRAI FR 1997-12357 A 19971003  
 WO 1998-FR2026 W 19980922  
 US 1999-319199 A3 19990602  
 AB A cosmetic and/or dermatol. compn. for treating keratin fibers,  
 in particular human keratin fibers and more particularly human hair  
 comprise in an appropriate support for keratin fibers: (a) at least an  
 oxidoreductase-type enzyme with 2 electrons in the presence of at least a  
 donor for said enzyme; and (b) at least a substantive polymer selected in  
 the group consisting of: (i) cellulosic cationic derivs.; (ii)  
 dimethyldiallylammonium halide homopolymers and dimethyldiallylammonium  
 copolymers and (meth)acrylic acid; (iii) methacryloyloxyethyltrimethylammo  
 nium halide homopolymers and copolymers; (iv) quaternary polyammonium  
 polymers; (v) vinylpyrrolidone polymers with cationic structural units;  
 and (vi) their mixts. The invention also concerns the methods for  
 treating keratin fibers in particular methods for dyeing, permanently  
 setting or bleaching hair using said compn. A hair dye  
 compn. contained uricase (20 IU/mg) 1.5, uric acid 1.5,  
 p-phenylenediamine 0.324, resorcin 0.33, Merquat 280 (acrylic  
 acid-dimethyldiallylammonium chloride copolymer) 1.0, and water q.s. 100  
 g.  
 ST oxidative hair dye oxidoreductase enzyme polymer  
 IT Amphoteric surfactants  
 Anionic surfactants  
 Antioxidants  
 Cationic surfactants  
 Coupling agents  
 Nonionic surfactants  
 Opacifiers  
 Organic solvents  
 Oxidizing agents  
 Perfumes  
 Permanent wave preparations  
 Permeation enhancers  
 Preservatives  
 Sequestering agents  
 Thickening agents  
 Zwitterionic surfactants  
 (oxidative hair dye compns. contg.  
 oxidoreductase-type enzymes and polymers)

IT Enzymes, biological studies  
 Paraffin oils  
 Polymers, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (oxidative hair dye compns. contg. oxidoreductase-type  
 enzymes and polymers)

IT Quaternary ammonium compounds, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (polymers; oxidative hair dye compns. contg.  
 oxidoreductase-type enzymes and polymers)

IT 69-93-2, Uric acid, biological studies 106-50-3, 1,4-Benzenediamine,  
 biological studies 108-45-2, 1,3-Benzenediamine, biological studies  
 108-46-3, 1,3-Benzenediol, biological studies 591-27-5 9002-12-4,  
 Uricase 9004-34-6D, Cellulose, alkyl ether derivs. 9015-06-9  
 9055-15-6, Oxidoreductase 26062-79-3, Merquat 100 **26161-33-1**  
 30581-59-0, Dimethylaminoethyl methacrylate-vinylpyrrolidone copolymer  
**35429-19-7** 53694-17-0, Merquat 280 68393-49-7 95144-24-4  
 131954-48-8 197179-33-2, Oramix cg110 223104-80-1  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (oxidative hair dye compns. contg. oxidoreductase-type  
 enzymes and polymers)

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Beiersdorf Ag; DE 19547991 A 1997 HCPLUS
- (2) Goldwell Ag; EP 0548620 A 1993 HCPLUS
- (3) Goldwell Ag; EP 0548621 A 1993 HCPLUS
- (4) Kaisha, Y; EP 0716846 A 1996 HCPLUS
- (5) Kyowa Hakko Kogyo Kk; EP 0310675 A 1989 HCPLUS
- (6) Oreal; FR 2586913 A 1987
- (7) Oreal, S; WO 9400100 A 1994 HCPLUS
- (8) Wella Ag; EP 0795313 A 1997 HCPLUS

IT **26161-33-1 35429-19-7**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (oxidative hair dye compns. contg. oxidoreductase-type  
 enzymes and polymers)

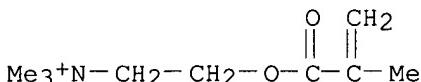
RN 26161-33-1 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

CMF C9 H18 N O2 . Cl

● Cl<sup>-</sup>

RN 35429-19-7 HCPLUS

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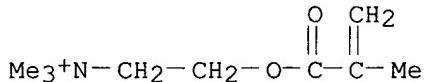
KOSS 09/881807 Page 35

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

CMF C9 H18 N O2 . Cl

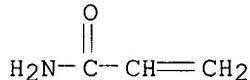


● Cl<sup>-</sup>

CM 2

CRN 79-06-1

CMF C3 H5 N O



L78 ANSWER 11 OF 27 HCPLUS COPYRIGHT 2002 ACS

AN 1999:81556 HCPLUS

DN 130:143946

TI Hair conditioning compositions containing .alpha.- or .beta.- hydroxy acid esters

IN Deegan, Charlene Patricia; Hawkins, Geoffrey Robert

PA Revlon Consumer Products Corporation, USA

SO PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

FAN.CNT 1

PATENT-NR.	KIND	DATE	APPLICATION NO.	DATE
WO 9903447	A1	19990128	WO 1998-US14951	19980720
W: AU, BR, CA, JP, MX, NZ				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5989533	A	19991123	US 1997-897955	19970721
AU 9884992	A1	19990210	AU 1998-84992	19980720
AU 728273	B2	20010104		
EP 1001733	A1	20000524	EP 1998-935819	19980720
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9811019	A	20000919	BR 1998-11019	19980720
JP 2001510148	T2	20010731	JP 2000-502749	19980720

	Z A 9806490	A 19990203	Z A 1998-6490	19980721
PRAI	US 1997-897955	A 19970721		
	WO 1998-US14951	W 19980720		

AB Disclosed is a hair conditioner compn. comprising 0.1-20 % of a cationic conditioning agent, 0.1-20 % of esters of .alpha.- or .beta.-hydroxy acids, 0.1-30 % of a **fatty alc.**, 0.001-10 % of a nonionic surfactant, and 5-95 % water. A hair conditioner contained citric acid 0.15, methylparaben 0.2, propylparaben 0.05, panthenol 0.01, cetearyl alc. 2, stearyl alc. 1.2, cetyl alc. 2, propylene **glycol** 0.5, ceteareth 0.5, trimethylsilylamodimethicone 1, fragrances 0.5, pantethine 0.001, behentrimonium chloride 2.8, dilinoleamidopropyldimethylamine dimer linoleate 1.4, Polyquaternium 37 2, octadodecyl fluoroheptyl citrate and cyclomethicone 1, isostearyl malate/lactate/**glycolate**/citrate 0.3, and distd. water to 100 %.

ST hair conditioner hydroxycarboxylic acid ester; isostearyl malate lactate **glycolate** citrate hair conditioner

IT Hydroxy carboxylic acids  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (esters; hair preps. contg. hydroxy acid esters and conditioning agents and fatty alcs.)

IT Hair conditioners  
 (hair preps. contg. hydroxy acid esters and conditioning agents and fatty alcs.)

IT Dimethyl cyclosiloxanes  
**Ethoxylated** cetostearyl alcohols  
**Fatty alcohols**  
 Polysiloxanes, biological studies  
 Quaternary ammonium compounds, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (hair preps. contg. hydroxy acid esters and conditioning agents and fatty alcs.)

IT 112-02-7, Cetrimonium chloride 112-92-5, Stearyl alcohol 9016-00-6, Dimethylsilanediol homopolymer sru 17301-53-0, Behentrimonium chloride **26161-33-1**, Polyquaternium 37 31900-57-9, Dimethylsilanediol homopolymer 36653-82-4, Cetyl alcohol 42131-28-2, Isostearyl lactate 56854-73-0 60270-33-9D, dimer, linoleate salts 81613-56-1D, dimer, linoleate salts 93682-38-3 159317-32-5, Isostearyl **glycolate**  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (hair preps. contg. hydroxy acid esters and conditioning agents and fatty alcs.)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

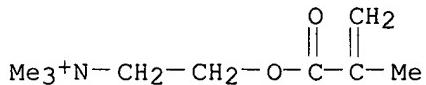
RE  
 (1) Alzo Inc; Technical Bulletin on Dermol Alfa, Bulletin #227 1996  
 (2) Epstein; US 5759558 A 1998 HCPLUS  
 (3) Fowler; US 5534265 A 1996 HCPLUS  
 (4) Linn; US 4797273 A 1989 HCPLUS

IT **26161-33-1**, Polyquaternium 37  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (hair preps. contg. hydroxy acid esters and conditioning agents and fatty alcs.)

RN 26161-33-1 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, homopolymer (9CI) (CA INDEX NAME)

CRN 5039-78-1  
 CMF C9 H18 N O2 . Cl



● Cl<sup>-</sup>

L78 ANSWER 12 OF 27 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1997:756974 HCAPLUS  
 DN 128:53040  
 TI Hair shampoo compositions containing a polyampholyte polymer and a nonvolatile and water-insoluble organopolysiloxane  
 IN Cauwet-martin, Daniele; Lion, Bertrand; Mondet, Jean  
 PA L'oreal, Fr.; Cauwet-Martin, Daniele; Lion, Bertrand; Mondet, Jean  
 SO PCT Int. Appl., 46 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA French  
 IC ICM A61K007-06  
 CC 62-3 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 37

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9742931	A1	19971120	WO 1997-FR792	19970505
	W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, GH, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	FR 2748392	A1	19971114	FR 1996-5917	19960513
	FR 2748392	B1	19980807		
	AU 9727811	A1	19971205	AU 1997-27811	19970505
	EP 906081	A1	19990407	EP 1997-921932	19970505
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE JP 11512752	T2	19991102	JP 1997-540572	19970505
PRAI	FR 1996-5917		19960513		
	WO 1997-FR792		19970505		
AB	A compn. for treating human hair contains a polyampholyte polymer comprising in the chain or in a lateral position relative to the chain, equimolar amts. of neg. charges and pos. charges, the polymer being water-insol. at 0.1% and at 20.degree. and a nonvolatile, water-insol. organopolysiloxane of viscosity higher than 3 x 10 <sup>-5</sup> m <sup>2</sup> /s (300 cSt). Thus, a shampoo contained cocoyl betaine 18, sodium styrenesulfonate-trimethylammonioethyl chloride copolymer 1, Mirasil DM-500,000 2, a 47:53 mixt. of 1-(hexadecyloxy)-2-octadecanol/cetyl alc. 2.5, coco fatty acid monoisopropanol amide 1, NaCl 2, perfume and preservatives qs, and water to 100 g.				
ST	organopolysiloxane polyampholyte polymer hair shampoo				
IT	Polysiloxanes, biological studies				

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(Silbione 71827 and Mirasil DM 500000; shampoo compns. contg.  
polyampholyte polymer and organopolysiloxane)

IT Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(alkyl aryl; shampoo compns. contg. polyampholyte polymer and  
organopolysiloxane)

IT Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(aryl; shampoo compns. contg. polyampholyte polymer and  
organopolysiloxane)

IT Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(polyoxyalkylene-, block; shampoo compns. contg. polyampholyte polymer  
and organopolysiloxane)

IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(polysiloxane-, block; shampoo compns. contg. polyampholyte polymer and  
organopolysiloxane)

IT Hair preparations  
Shampoos  
(shampoo compns. contg. polyampholyte polymer and organopolysiloxane)

IT Silicone rubber, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(shampoo compns. contg. polyampholyte polymer and organopolysiloxane)

IT 6613-64-5D, copolymers 31324-84-2 38812-35-0 **41488-70-4**  
65205-78-9 65205-79-0 68864-72-2 89503-60-6D, copolymers  
117829-14-8 145378-84-3, Abil EM 90 **155863-55-1** 156309-05-6,  
Dimethylsilanediol-ethylene oxide-propylene oxide block copolymer  
192820-61-4 195868-36-1, Abil AV 1000 197022-88-1D, copolymers  
199858-03-2 199858-04-3 200013-84-9, DC 593  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(shampoo compns. contg. polyampholyte polymer and organopolysiloxane)

IT 86828-39-9P 98715-54-9P 199858-01-0P 199858-05-4P  
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(shampoo compns. contg. polyampholyte polymer and organopolysiloxane)

IT **41488-70-4 155863-55-1**  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(shampoo compns. contg. polyampholyte polymer and organopolysiloxane)

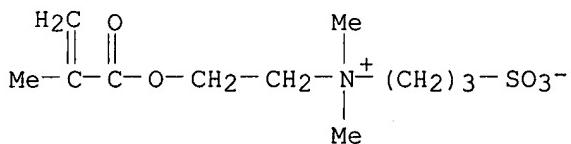
RN 41488-70-4 HCAPLUS

CN 1-Propanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-  
3-sulfo-, inner salt, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 3637-26-1

CMF C11 H21 N O5 S



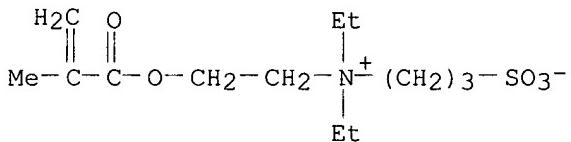
RN 155863-55-1 HCAPLUS

CN 1-Propanaminium, N,N-diethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-3-sulfo-, inner salt, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 60162-24-5

CMF C13 H25 N 05 S



L78 ANSWER 13 OF 27 HCAPLUS COPYRIGHT 2002 ACS

AN 1997:542321 HCAPLUS

DN 127:210216

TI Photoprotective compositions

IN Tanner, Paul Robert; Wagner, Julie Ann

PA Procter &amp; Gamble Company, USA

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K007-42

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 63

FAN: CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9728785	A1	19970814	WO 1997-US1170	19970124
	W: AU, CA, CN, CZ, JP, KR, MX				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5759524	A	19980602	US 1996-599202	19960209
	AU 9717093	A1	19970828	AU 1997-17093	19970124
	AU 725142	B2	20001005		
	EP 893986	A1	19990203	EP 1997-903101	19970124
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	JP 11504043	T2	19990406	JP 1997-528528	19970124
	CN 1213296	A	19990407	CN 1997-192949	19970124
PRAI	US 1996-599202	A	19960209		
	WO 1997-US1170	W	19970124		
AB	The present invention relates to leave-on, skin-care compns., comprising:				
	(a) from about 0.1 % to about 30 % of a sunscreen active, (b) from about 0.5 % to about 20 % of a hydrophobic, structuring agent, (c) from about 0.2 % to about 10 % of a hydrophilic surfactant, (d) from about 0.1 % to about 5 % of a thickening agent, and (e) water. These compns. are useful for providing protection to human skin from the harmful effects of UV				

radiation.

ST sunscreen formulation

IT **Ethoxylated alcohols**  
 RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL  
 (Biological study); USES (Uses)  
 (C16-18; photoprotective formulations)

IT **Fatty alcohols**  
**Glycols**, biological studies  
 RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL  
 (Biological study); USES (Uses)  
 (C16-30; photoprotective formulations)

IT C16-18 alcohols  
 RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL  
 (Biological study); USES (Uses)  
 (**ethoxylated**; photoprotective formulations)

IT Surfactants  
 (hydrophilic; photoprotective formulations)

IT Fatty acids, biological studies  
 RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL  
 (Biological study); USES (Uses)  
 (hydroxy, C16-30; photoprotective formulations)

IT Gums  
 Sunscreens  
 Thickening agents  
 UV radiation  
 (photoprotective formulations)

IT Polyoxyalkylenes, biological studies  
 Polysaccharides, biological studies  
 RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL  
 (Biological study); USES (Uses)  
 (photoprotective formulations)

IT Carboxylic acids, biological studies  
 RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL  
 (Biological study); USES (Uses)  
 (polymers; photoprotective formulations)

IT 56-81-5D, Glycerol, ethers  
 RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL  
 (Biological study); USES (Uses)  
 (C16-30; photoprotective formulations)

IT 118-56-9, Homomenthyl salicylate 118-60-5, Octyl salicylate 131-57-7,  
 Oxybenzone 150-13-0, Paba 1314-13-2, Zinc oxide, biological studies  
 1332-37-2, Iron oxide, biological studies 5466-77-3, 2-Ethylhexyl  
 p-methoxycinnamate 6197-30-4, Octocrylene 13463-67-7, Titanium  
 dioxide, biological studies 15087-24-8, 3-Benzylidene camphor  
 21245-02-3, 2-Ethylhexyl N,N-dimethyl-p-aminobenzoate 27503-81-7,  
 2-Phenylbenzimidazole-5-sulfonic acid 36861-47-9, 3-(4-  
 Methylbenzylidene)camphor 56265-46-4 63250-25-9, 4-Isopropyl  
 dibenzoylmethane 70356-09-1, 4,4'-Methoxy-tert-butyldibenzoylmethane  
 RL: BUU (Biological use, unclassified); PEP (Physical, engineering or  
 chemical process); THU (Therapeutic use); BIOL (Biological study); PROC  
 (Process); USES (Uses)  
 (photoprotective formulations)

IT 57-50-1D, Sucrose, allyl and cocoa derivs. 9003-01-4, Polyacrylic acid  
 9003-05-8, Polyacrylamide 9003-39-8, Poly(N-vinylpyrrolidone)  
 9005-00-9, Steareth-21 25322-68-3, **Polyethyleneglycol**  
**26161-33-1**, Polyquaternium 37 35429-19-7, Polyquaternium  
 32  
 RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL  
 (Biological study); USES (Uses)  
 (photoprotective formulations)

IT 77-99-6, Trimethylolpropane 78-79-5, Isoprene, reactions 97-90-5,  
 Ethylene glycol dimethacrylate 106-99-0, Butadiene, reactions  
 110-26-9, Methylene bisacrylamide 557-40-4, Diallylether 999-55-3,  
 Allylacrylate 1321-74-0, Divinylbenzene, reactions 3784-12-1  
 7370-82-3, Dimethacrylamide 13818-40-1, Cyanomethylacrylate  
 41440-38-4, Vinyloxyethylacrylate 77221-84-2, Divinylnaphthalene  
 RL: RCT (Reactant)  
 (photoprotective formulations)

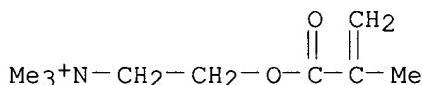
IT 26161-33-1, Polyquaternium 37 35429-19-7, Polyquaternium  
 32  
 RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL  
 (Biological study); USES (Uses)  
 (photoprotective formulations)

RN 26161-33-1 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,  
 chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

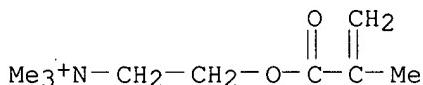
CRN 5039-78-1  
 CMF C9 H18 N O2 . Cl

● Cl<sup>-</sup>

RN 35429-19-7 HCAPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,  
 chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

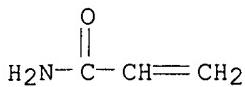
CM 1

CRN 5039-78-1  
 CMF C9 H18 N O2 . Cl

● Cl<sup>-</sup>

CM 2

CRN 79-06-1  
 CMF C3 H5 N O



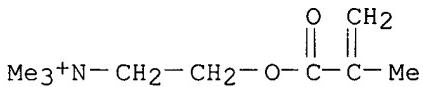
L78 ANSWER 14 OF 27 HCPLUS COPYRIGHT 2002 ACS  
 AN 1997:369695 HCPLUS  
 DN 126:347155  
 TI Cosmetic compositions containing cationic resin and waxes  
 IN Sheard, Christine  
 PA Boots Company Plc, UK; Sheard, Christine  
 SO PCT Int. Appl., 21 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A61K007-48  
 CC 62-4 (Essential Oils and Cosmetics)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9713497	A1	19970417	WO 1996-EP4393	19961009
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
	AU 9672893	A1	19970430	AU 1996-72893	19961009
	EP 862410	A1	19980909	EP 1996-934606	19961009
	R: DE, FR, GB ZA 9608552	A	19980610	ZA 1996-8552	19961010
PRAI	GB 1995-20690	A	19951010		
	WO 1996-EP4393	W	19961009		
AB	A cosmetic compn. comprises 0.05-5% hydrophilic cationic resin 30-85% oil component 1-40% wax component and 1-40 % wt./wt. powder component. The hydrophilic cationic resin may be water sol. or water swellable and may also be any mixt. of suitable homopolymers or copolymers, e.g., any mixt. of 1 or more Polyquaternium polymers or polymeric salts preferably those denoted by the CFTA name Polyquaternium. The cosmetic compn. is solid at ambient temp. and is suitable for use as a lipstick. A product comprising the compn. assocd. with a suitable receptacle and/or dispenser is also disclosed. Thus, a lipstick contained plant wax 6.4, paraffin wax 9.0, synthetic wax 2.3, synthetic fat 10.0, <b>fatty alc.</b> 20.7, synthetic ester 12.74, plant oil 26.24, preservative 0.1, antioxidant 0.03, Salcare SC96 2.25, butylene <b>glycol</b> 1.5, and pigment 8.74%.				
ST	lipstick wax cationic polymer; Polyquaternium lipstick wax oil				
IT	Antioxidants Cosmetics Lipsticks Moisturizers (cosmetics) Preservatives Sunscreens (cosmetic compns. contg. cationic resin and waxes)				
IT	Amino acids, biological studies Fossil waxes Paraffin oils Paraffin waxes, biological studies				

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 33611-56-2  
CMF C9 H18 N O2



CM 2

CRN 21228-90-0  
CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

RN 189767-71-3 HCPLUS

L78 ANSWER 15 OF 27 HCPLUS COPYRIGHT 2002 ACS  
 AN 1997:329281 HCPLUS  
 DN 126:308638  
 TI Body wash compositions containing anionic cleansing surfactants polymeric cationic conditioning compounds and quaternized phosphate esters  
 IN Scafidi, Anthony A.  
 PA Helene Curtis, Inc., USA  
 SO PCT Int. Appl., 59 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A61K007-50  
 CC 62-4 (Essential Oils and Cosmetics)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9710804	A1	19970327	WO 1996-US14410	19960909
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI				
	US 5683683	A	19971104	US 1995-531712	19950921
	ZA 9607294	A	19970304	ZA 1996-7294	19960828
	AU 9669697	A1	19970409	AU 1996-69697	19960909
	BR 9610522	A	19990706	BR 1996-10522	19960909
PRAI	US 1995-531712	A	19950921		
	WO 1996-US14410	W	19960909		
OS	MARPAT 126:308638				
AB	A body wash compn. contg. an anionic cleansing surfactant, such as an alkyl ether sulfate or an alkyl sulfate, like sodium lauryl ether sulfate or sodium lauryl sulfate; a polymeric cationic conditioning compd., such				

as a quaternized guar gum; and a quaternized phosphate ester in an aq. carrier is disclosed. The compn. is used to cleanse and to impart conditioning properties to the skin. A body wash compn. contained sodium lauryl ether sulfate 12.0, a premixed surfactant conc. 3.6, cocamide MEA 7.0, preservatives 0.5, guar hydroxypropyltrimonium chloride 0.2, tetrasodium ethylenediamine tetraacetic acid 0.08, citric acid 0.15, palmitic acid 2.0, stearamidopropyl phosphatidyl PG-dimonium chloride 0.4, cocamidopropyl hydroxysulfate 1.9, titanium dioxide 0.2, and water q.s. 100%.

ST body wash compn anionic surfactant; cleansing compn cationic polymer conditioner; quaternized phosphate ester cleansing compn

IT Sulfonates

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(1-alkene; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Fatty amides

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(N,N-bis(hydroxyalkyl); body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Coco amides

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(N-(hydroxyethyl); body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Carboxylic acids, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(alkyl esters; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Carbonates, biological studies

Sulfates, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(alkyl; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Fats and Glyceridic oils, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(almond; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Fats and Glyceridic oils, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(apicot kernel; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Fats and Glyceridic oils, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(bay; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Alkali metal salts

Alkanesulfonates  
Amphoteric surfactants  
Anionic surfactants  
Avocado oil  
Castor oil  
Cationic polyelectrolytes  
Coconut oil  
Cod-liver oil  
Corn oil  
Cottonseed oil  
**Ethoxylated** castor oil  
Fatty acids, biological studies  
Grape seed oil  
Hydrogenated castor oil  
Hydrogenated vegetable oils  
Linseed oil  
Menhaden oil  
Nonionic surfactants  
Olive oil  
Palm kernel oil  
Palm oil  
Peanut oil  
Petrolatum  
Phospholipids, biological studies  
Quaternary ammonium compounds, biological studies  
Rape oil  
Rice bran oil  
Safflower oil  
Sesame oil  
Skin cleansers  
Soybean oil  
Soybean proteins  
Sugar esters  
Sunflower oil  
Tall oil  
Wheat germ oil  
N,N-Bis(hydroxyethyl) coco amides  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(body wash compns. contg. anionic cleansing surfactants polymeric  
cationic conditioning compds. and quaternized phosphate esters)  
IT Vegetable oils  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(chaulmoogra oil; body wash compns. contg. anionic cleansing  
surfactants polymeric cationic conditioning compds. and quaternized  
phosphate esters)  
IT Hydrogenated vegetable oils  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(cottonseed; body wash compns. contg. anionic cleansing surfactants  
polymeric cationic conditioning compds. and quaternized phosphate  
esters)  
IT Polyhydric alcohols  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(esters; body wash compns. contg. anionic cleansing surfactants  
polymeric cationic conditioning compds. and quaternized phosphate  
esters)  
IT **Fatty alcohols**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(**ethoxylated**; body wash compns. contg. anionic cleansing  
surfactants polymeric cationic conditioning compds. and quaternized  
phosphate esters)

IT **Ethoxylated alcohols**  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(**fatty**; body wash compns. contg. anionic cleansing  
surfactants polymeric cationic conditioning compds. and quaternized  
phosphate esters)

IT Fats and Glyceridic oils, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hazelnut; body wash compns. contg. anionic cleansing surfactants  
polymeric cationic conditioning compds. and quaternized phosphate  
esters)

IT Olive oil  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(husk; body wash compns. contg. anionic cleansing surfactants polymeric  
cationic conditioning compds. and quaternized phosphate esters)

IT Hydrogenated vegetable oils  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hydrogenated palm kernel oil; body wash compns. contg. anionic  
cleansing surfactants polymeric cationic conditioning compds. and  
quaternized phosphate esters)

IT Hydrogenated vegetable oils  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hydrogenated palm oil; body wash compns. contg. anionic cleansing  
surfactants polymeric cationic conditioning compds. and quaternized  
phosphate esters)

IT Cottonseed oil  
Jojoba oil  
Menhaden oil  
Palm kernel oil  
Palm oil  
Peanut oil  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hydrogenated; body wash compns. contg. anionic cleansing surfactants  
polymeric cationic conditioning compds. and quaternized phosphate  
esters)

IT Sulfobetaines  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hydroxypropyl derivs.; body wash compns. contg. anionic cleansing  
surfactants polymeric cationic conditioning compds. and quaternized  
phosphate esters)

IT Hydrogenated oils  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(menhaden oil; body wash compns. contg. anionic cleansing surfactants  
polymeric cationic conditioning compds. and quaternized phosphate  
esters)

IT Animal fats  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(mink; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Fats and Glyceridic oils, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (moringa; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Fats and Glyceridic oils, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (neat's-foot; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Lanolin  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (oil; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Fats and Glyceridic oils, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (pengawar djambi; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Fatty alcohols  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (propoxylated; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Fish oils  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (shark-liver oil, hydrogenated; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Amides, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (tallow, N,N-bis(hydroxyethyl); body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT Fats and Glyceridic oils, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (walnut; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT 142-54-1, Lauramide MIPA  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (Lauramide MIPA; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT 93-82-3, Stearamide dea 93-83-4, Oleylamide dea 107-36-8 107-43-7, Betaine 107-43-7D, Betaine, cocoamidopropyl derivs. 111-05-7, Oleamide MIPA 111-57-9, Stearamide mea 120-40-1, Lauramide dea 151-41-7, Lauryl sulfate 871-37-4, Oleyl betaine 1330-69-4, Dodecylbenzene sulfonate 4292-10-8, Lauramidopropylbetaine 5138-18-1D, Sulfosuccinic

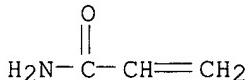
acid, salts 7545-23-5, Myristamide dea 7664-38-2D, Phosphoric acid, quaternized esters 8008-53-5, Ethiodized oil 9004-84-6, Trideceth sulfate 25054-76-6, Oleamidopropyl betaine 26006-22-4, Polyquaternium 5 26062-79-3, Polyquaternium 6 26183-44-8, Lauryl ether sulfate 26590-05-6, Polyquaternium 7 26912-46-9, Nonoxynol phosphate 27103-90-8, Polyquaternium 14 28518-51-6, Lauryl sulfosuccinate 34380-77-3, Lauryl sarcosinate 35429-19-7, Polyquaternium 15 39288-04-5, Octoxynol phosphate 52794-79-3, Isostearamide dea 53633-54-8, Polyquaternium 11 53694-17-0, Polyquaternium 22 53998-08-6, Sarcosinate 54536-43-5, Isostearamide mea 63451-27-4, Polyquaternium 2 65497-29-2, Guar hydroxypropyltrimonium chloride 68877-47-4, Polyquaternium 13 68877-50-9, Polyquaternium 12 75345-27-6, Polyquaternium 1 79083-17-3, Laureth sulfosuccinate 81859-24-7, Polyquaternium 10 92183-41-0, Polyquaternium 4 95144-24-4, Polyquaternium 16 98616-25-2, Polyquaternium 24 110736-85-1, Polyquaternium 19 110736-86-2, Polyquaternium 20 113784-58-0, Polyquaternium 18 130291-58-6, Polyquaternium 9 131954-48-8, Polyquaternium 28 132977-85-6, Polyquaternium 27 146189-14-2, Polyquaternium 8 147398-77-4, Polyquaternium 30 148506-50-7, Polyquaternium 17 148880-30-2, Polyquaternium 29  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT 17655-31-1, Amide  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (oxides; body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

IT 26006-22-4, Polyquaternium 5 27103-90-8, Polyquaternium 14 35429-19-7, Polyquaternium 15 147398-77-4, Polyquaternium 30  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (body wash compns. contg. anionic cleansing surfactants polymeric cationic conditioning compds. and quaternized phosphate esters)

RN 26006-22-4 HCPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

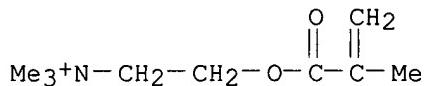
CRN 79-06-1  
CMF C3 H5 N O

CM 2

CRN 6891-44-7  
CMF C9 H18 N O2 . C H3 O4 S

CM 3

CRN 33611-56-2  
 CMF C9 H18 N O2



CM 4

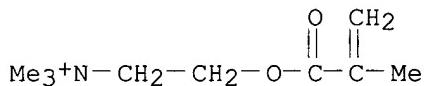
CRN 21228-90-0  
 CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

RN 27103-90-8 HCPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[ (2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 33611-56-2  
 CMF C9 H18 N O2



CM 2

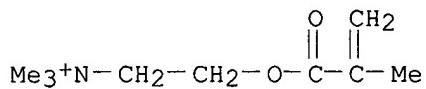
CRN 21228-90-0  
 CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

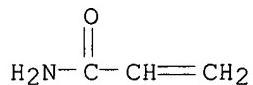
RN 35429-19-7 HCPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[ (2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1  
 CMF C9 H18 N O2 . Cl

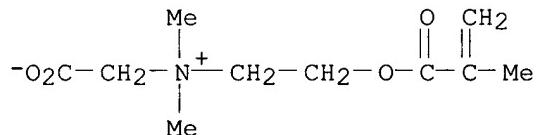
● Cl<sup>-</sup>

CM 2

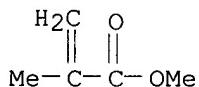
CRN 79-06-1  
CMF C3 H5 N O

RN 147398-77-4 HCAPLUS  
 CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[ (2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 62723-61-9  
CMF C10 H17 N O4

CM 2

CRN 80-62-6  
CMF C5 H8 O2

L78 ANSWER 16 OF 27 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1997:283674 HCAPLUS  
 DN 126:268310  
 TI Conditioning and washing hair care compositions containing **fatty alcohols** and surfactants  
 IN Cervantes, Frederic; Lopez, Juan

PA L'Oreal S. A., Fr.  
 SO Eur. Pat. Appl., 11 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA French  
 IC ICM A61K007-50  
 ICS A61K007-06  
 CC 62-3 (Essential Oils and Cosmetics)  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<del>EP 761206</del>	A1	19970312	<del>EP 1996-401645</del>	<del>19960723</del>
<del>EP 761206</del>	B1	19980128		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
FR 2738482	A1	19970314	FR 1995-10484	19950907
FR 2738482	B1	19971024		
AT 162708	E	19980215	AT 1996-401645	19960723
ES 2117476	T3	19980801	ES 1996-401645	19960723
CA 2184628	AA	19970308	CA 1996-2184628	19960830
JP 09110653	A2	19970428	JP 1996-235587	19960905
JP 2756440	B2	19980525		
BR 9604214	A	19980526	BR 1996-4214	19960905
US 5756076	A	19980526	US 1996-708616	19960905
RU 2129859	C1	19990510	RU 1996-117954	19960906

PRAI FR 1995-10484 A 19950907

OS MARPAT 126:268310

AB Hair conditioning preps. contain (1) a conditioner system comprising a C14-22 **fatty alc.**, a cationic surfactant such as quaternary ammonium derivs., and a cationic silicone; (2) an alkylpolyglycoside non-ionic surfactant, an amphoteric surfactants such as betaines; (3) and a stabilizer system comprising **glycol** mono- or di-stearate and a crosslinked polymer such as methacryloyloxyethyltrimethylammonium chloride. A hair conditioner contained 40% C9-11 alkyl polyglycoside 14, 50% cocoylamidopropyltrimethylhydroxypropyl sulfobetaine 2.5, cetylstearyl alc. 5, Slacare SC 92 0.5, **glycol** distearate 2, 80% behenyltrimethylammonium chloride 2.4, cationic silicone 0.88, preservatives q.s. and water q.s. 100 g.

ST hair conditioner **fatty alc** surfactant; sulfobetaine polyglycoside cetylstearyl alc hair conditioner

#### IT **Fatty alcohols**

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (C14-22; hair conditioning preps. contg. fatty alcs. and surfactants)

IT Polysiloxanes, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

[(*aminoethyl*)*amino*]propyl hydroxy, di-Me; hair conditioning preps. contg. fatty alcs. and surfactants)

#### IT Glycosides

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (alkyl polyglycosides; hair conditioning preps. contg. fatty alcs. and surfactants)

#### IT Polysiloxanes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(cationic; hair conditioning preps. contg. fatty alcs. and surfactants)

#### IT Hair conditioners

(hair conditioning prepns. contg. fatty alcs. and surfactants)

IT Betaines  
 Cationic surfactants  
 C16-18 alcohols  
 Nonionic surfactants  
 Quaternary ammonium compounds, biological studies  
 Zwitterionic surfactants  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (hair conditioning prepns. contg. fatty alcs. and surfactants)

IT 107-64-2, Distearyldimethylammonium chloride 111-60-4, Glycol  
 Monostearate 112-02-7, Hexadecyltrimethylammonium chloride 112-92-5,  
 1-Octadecanol 627-83-8, Glycol di-stearate 17301-53-0,  
 Behenyltrimethylammonium chloride 24938-91-8, Polyethyleneglycol  
 tridecyl ether 26161-33-1, Methacryloxyethyltrimethylammonium  
 chloride homopolymer 35429-19-7 36653-82-4, 1-Hexadecanol  
 86880-59-3D, N-cocoyl derivs.  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (hair conditioning prepns. contg. fatty alcs. and surfactants)

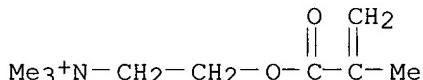
IT 26161-33-1, Methacryloxyethyltrimethylammonium chloride  
 homopolymer  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (hair conditioning prepns. contg. fatty alcs. and surfactants)

RN 26161-33-1 HCAPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,  
 chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

CMF C9 H18 N O2 . Cl



● Cl-

L78 ANSWER 17 OF 27 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1997:259250 HCAPLUS  
 DN 126:242600  
 TI Permanent wave compositions containing quaternary ammonium-containing polymers  
 IN Tabata, Yoshiko; Hirano, Rei; Shimada, Yosho; Kajino, Takayoshi  
 PA Kao Corp, Japan  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM A61K007-09  
 CC 62-3 (Essential Oils and Cosmetics)

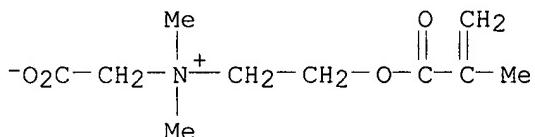
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09030939	A2	19970204	JP 1995-179914	19950717
AB	Title <b>compns.</b> , which show long-lasting hair-conditioning effects, comprise 1st agents contg. reducing agents and copolymers comprising 60-99 wt.% di(m)ethyldiallylammonium chlorides and 1-40 wt.% (meth)acrylic acid and 2nd <b>agents</b> contg. <b>oxidizing agents</b> and copolymers comprising 30-60 wt.% di(m)ethyldiallylammonium chlorides and 10-40 wt.% (meth)acrylamide. A hair wave-setting <b>compn.</b> comprised a 1st agent consisting of thioglycolic acid 6.5, NH4HCO3 3.0, NH3, propylene glycol 1.0, polyoxyethylene sec-tetradecyl ether 1.0, Merquat 280 (40%) 1.0, and H2O to 100.0% and a 2nd agent consisting of NaBrO3 8.0, propylene glycol 1.0, polyoxyethylene sec-tetradecyl ether 1.0, Merquat Plus 3330 (40%) 1.0, and H2O to 100.0%.				
ST	permanent wave quaternary ammonium polymer; hair wave setting quaternary ammonium polymer				
IT	Permanent wave preparations (permanent wave <b>compns.</b> contg. quaternary ammonium-contg. polymers)				
IT	Acidic polysaccharides Polysiloxanes RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (permanent wave <b>compns.</b> contg. quaternary ammonium-contg. polymers)				
IT	Quaternary ammonium compounds, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (polymers; permanent wave <b>compns.</b> contg. quaternary ammonium-contg. polymers)				
IT	53694-17-0, Merquat 295 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (Merquat 295, Merquat 280; permanent wave <b>compns.</b> contg. quaternary ammonium-contg. polymers)				
IT	<b>188488-06-4</b> , 2-Hydroxyethyl methacrylate-methacryloylethyldimethylbetaine-methacryloylethyltrimethylammonium chloride copolymer RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (Plassize L 450; permanent wave <b>compns.</b> contg. quaternary ammonium-contg. polymers)				
IT	9005-38-3, Sodium alginate 9016-00-6, Dimethyl siloxane, sru 25136-75-8, 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamide and 2-propenoic acid 31900-57-9, Dimethylsilanediol homopolymer <b>79702-43-5</b> , Plassize L 401 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (permanent wave <b>compns.</b> contg. quaternary ammonium-contg. polymers)				
IT	<b>188488-06-4</b> , 2-Hydroxyethyl methacrylate-methacryloylethyldimethylbetaine-methacryloylethyltrimethylammonium chloride copolymer RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (Plassize L 450; permanent wave <b>compns.</b> contg. quaternary ammonium-contg. polymers)				
RN	188488-06-4 HCAPLUS				

CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[ (2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with 2-hydroxyethyl 2-methyl-2-propenoate and N,N,N-trimethyl-2-[ (2-methyl-1-oxo-2-propenyl)oxy]ethanaminium chloride (9CI) (CA INDEX NAME)

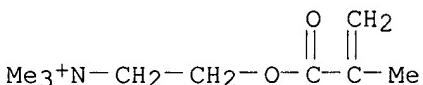
CM 1

CRN 62723-61-9  
 CMF C10 H17 N O4



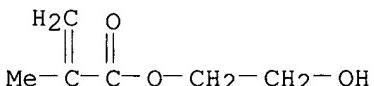
CM 2

CRN 5039-78-1  
 CMF C9 H18 N O2 . Cl

● Cl<sup>-</sup>

CM 3

CRN 868-77-9  
 CMF C6 H10 O3



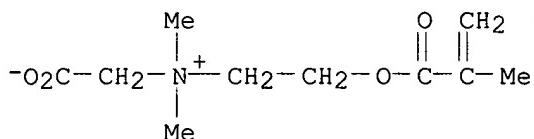
IT 79702-43-5, Plassize L 401  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (permanent wave compns. contg. quaternary ammonium-contg. polymers)

RN 79702-43-5 HCPLUS

CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[ (2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 62723-61-9  
 CMF C10 H17 N O4



L78 ANSWER 18 OF 27 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1997:231116 HCAPLUS  
 DN 126:216434  
 TI Hair-waving composition containing hydrophobic substance and cationic polymer  
 IN Rose, Burkhard; Noecker, Bernd  
 PA Goldwell GmbH, Germany  
 SO Ger. Offen., 4 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 IC ICM A61K007-09  
 CC 62-3 (Essential Oils and Cosmetics)  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19534722	A1	19970320	DE 1995-19534722	19950919
DE 19534722	C2	19980409		
DE 19534722	C3	20020110		
JP 09110655	A2	19970428	JP 1996-243015	19960913
PRAI DE 1995-19534722	A	19950919		
AB A hair-waving compn. which does not damage the hair or irritate or sensitize the skin contains a thio reducing agent, a hydrophobic substance (synthetic or natural fat or oil, <b>fatty alc.</b> , <b>fatty ester</b> ) 0.05-5, and a cationic polymer 0.1-5 wt.%. Such preps. confer good elasticity and combability and a beautiful luster on the hair. Thus, hair in rollers was exposed for 20-30 min to an oxidizing compn. contg. 80% thioglycolic acid 13.50, monoethanolamine 5.10, 25% NH3 soln. 5.80, 2-pyrrolidone-5-carboxylic acid 0.25, protein hydrolyzate 0.30, cetyltrimethylammonium chloride 0.45, ceteareth-25 0.25, <b>ethoxylated</b> castor oil 0.35, hydrogenated <b>ethoxylated</b> castor oil 0.60, coco amidopropylbetaine 0.25, 1,3-butanediol 0.75, Vaseline 0.20, avocado oil 0.20, bisabolol 0.50, urea 0.25, DC 929 silicone oil emulsion 0.20, NH4HCO3 5.00, Polyquaternium-5 (cationic polymer) 0.75, and H2O to 100.00 wt.%. After rinsing, the hair was fixed with a compn. contg. H2O2 2.5, cetyl stearyl alc. 2.0, Na lauryl ether sulfate 1.2, C12-14-alkyl polyglycol ether 1.0, stabilizer, perfume, and H2O to 100.0 wt.%.				
ST hair waving lipid cationic polymer; hydrophobic compd hair waving compn; oil Polyquaternium hair waving compn				
IT Cationic polyelectrolytes (esters; hair-waving compn. contg. hydrophobic substance and cationic polymer)				
IT Avocado oil Fats and Glyceridic oils Fatty acid esters <b>Fatty alcohols</b> Lipids, biological studies Thiols (organic), biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES				

## (Uses)

(hair-waving compn. contg. hydrophobic substance and cationic polymer)

IT 68-11-1, Thioglycolic acid, biological studies 26006-22-4,

Polyquaternium-5

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(hair-waving compn. contg. hydrophobic substance and cationic polymer)

IT 26006-22-4, Polyquaternium-5

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

(Uses)

(hair-waving compn. contg. hydrophobic substance and cationic polymer)

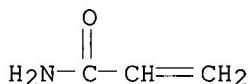
RN 26006-22-4 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 79-06-1

CMF C3 H5 N O



CM 2

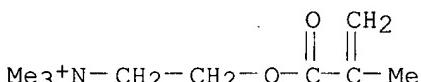
CRN 6891-44-7

CMF C9 H18 N O2 . C H3 O4 S

CM 3

CRN 33611-56-2

CMF C9 H18 N O2



CM 4

CRN 21228-90-0

CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

L78 ANSWER 19 OF 27 HCPLUS COPYRIGHT 2002 ACS

AN 1996:537034 HCPLUS

DN 125:176982

TI Aerosol-type hair-setting sprays containing polymers and fatty acid derivatives

IN Suzuki, Yoshinori; Yamagata, Yoshibumi; Yanaba, Shigeru

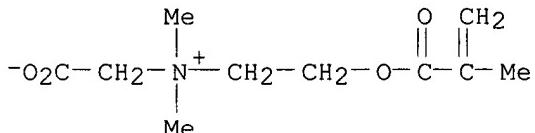
PA Lion Corp, Japan  
 SO Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM A61K007-11  
 ICA A61K007-00  
 CC 62-3 (Essential Oils and Cosmetics)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08157341	A2	T9960618	JP 1994-323538	19941201
AB	Aerosol-type hair sprays contain hair-fixing polymers, branched alc. fatty acid esters, and fatty acid diethanolamides. The prepns. show good hair-setting property and are easily removed by shampooing. An aerosol was formulated contg. Plascize L 9400B 10.0, iso-Pr myristate 1.0, coconut fatty acid diethanolamide 0.5, di-Me ether 10, LPG 40, and EtOH to 100% by wt.				
ST	hair setting fatty ester diethanolamide; aerosol hair setting spray polymer; branched alc ester hair setting				
IT	Alcohols, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (branched, esters; aerosol-type hair-setting sprays contg. polymers, fatty acid esters, and fatty acid diethanolamides)				
IT	Amides, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (coco, C.ltoreq.14; aerosol-type hair-setting sprays contg. polymers, fatty acid esters, and fatty acid diethanolamides)				
IT	Fatty acids, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (esters, with branched alcs.; aerosol-type hair-setting sprays contg. polymers, fatty acid esters, and fatty acid diethanolamides)				
IT	Hair preparations (sprays, aerosol-type hair-setting sprays contg. polymers, fatty acid esters, and fatty acid diethanolamides)				
IT	93-82-3, Stearic acid diethanolamide 110-27-0, Isopropyl myristate 111-42-2D, Diethanolamine, amides, with fatty acids 120-40-1, Lauric acid diethanolamide 136-26-5, Capric acid diethanolamide 142-91-6, Isopropyl palmitate 7545-23-5, Myristic acid diethanolamide 25377-64-4 42131-25-9, Isononyl isononanoate 54578-91-5, Gantrez ES 425 55353-56-5, Amphomer 28-4910 96518-24-0, Isotridecyl myristate 136372-47-9, Yukaformer AM 75R205S 143793-03-7, Plascize L 9400B 180616-05-1, Plascize L 7400B 180616-06-2, Plascize L 7480B 180616-07-3, Plascize L 9480B RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (aerosol-type hair-setting sprays contg. polymers, fatty acid esters, and fatty acid diethanolamides)				
IT	136372-47-9, Yukaformer AM 75R205S RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (aerosol-type hair-setting sprays contg. polymers, fatty acid				

esters, and fatty acid diethanolamides)  
 RN 136372-47-9 HCAPLUS  
 CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[ (2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with butyl 2-methyl-2-propenoate (9CI)  
 (CA INDEX NAME)

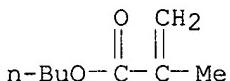
CM 1

CRN 62723-61-9  
 CMF C10 H17 N O4



CM 2

CRN 97-88-1  
 CMF C8 H14 O2



L78 ANSWER 20 OF 27 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1994:707973 HCAPLUS  
 DN 121:307973  
 TI Cosmetic compositions with one or more alkyl glycoside uronate anionic surfactants and one or more organopolysiloxanes, and their use in treating keratin-containing material.  
 IN Cauwet, Daniele; Dubief, Claude  
 PA Oreal S. A., Fr.  
 SO Fr. Demande, 25 pp.  
 CODEN: FRXXBL  
 DT Patent  
 LA French  
 IC ICM A61K007-075  
 ICS A61K007-50; A61K007-48  
 CC 62-1 (Essential Oils and Cosmetics)  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI FR 2702145	A1	19940909	FR 1993-6528	19930601
FR 2702145	B1	19940909		
WO 9427571	A1	19941208	WO 1994-FR629	19940531
W:	AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, HU, JP, KG, KP, KR, KZ, LK, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN			
RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9468506	A1	19941220	AU 1994-68506	19940531
EP 701429	A1	19960320	EP 1994-917067	19940531

EP 701429 B1 19970423  
 R: DE, ES, FR, GB, IT  
 JP 08510463 T2 19961105 JP 1994-500318 19940531  
 ES 2100716 T3 19970616 ES 1994-917067 19940531  
 US 6375958 B1 20020423 US 1997-999666 19970902  
 PRAI FR 1993-6528 A 19930601  
 WO 1994-FR629 W 19940531  
 US 1995-556908 A1 19951129  
 OS MARPAT 121:307973  
 AB Cosmetics are disclosed which contain .gtoreq.1 alkyl glycoside uronate anionic surfactant (Markush included), e.g. decyl .alpha.-D-galactopyranoside uronate sodium salt, and .gtoreq.1 organopolysiloxane, e.g. polydimethylsiloxane. Shampoo and bath compns. are included.  
 ST cosmetic alkyl glycoside uronate surfactant siloxane; shampoo cosmetic alkyl glycoside uronate siloxane; bath cosmetic alkyl glycoside uronate siloxane; keratin cosmetic alkyl glycoside uronate siloxane  
 IT Peptides, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (alkyl; cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)  
 IT Sulfonic acids, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (alkylether derivs.; cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)  
 IT Betaines  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (alkylimidazolium; cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)  
 IT Hair preparations  
 (cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)  
 IT Alcohols, biological studies  
 Amines, biological studies  
 Betaines  
 Polysaccharides, biological studies  
 Quaternary ammonium compounds, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)  
 IT Bath preparations  
 Cosmetics  
 Shampoos  
 (cosmetic compn. with alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)  
 IT Keratins  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (cosmetic compn. with alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)  
 IT Cyclosiloxanes  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (cosmetic compn. with alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)

- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(cosmetic compn. with alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Carbohydrates and Sugars, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(fatty acid esters; cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Amides, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(sulfated, salts; cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Glycols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(.alpha.-; cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT **Amides**, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(N-(hydroxyalkyl), **fatty** acid; cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Amines, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(N-oxides, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Cosmetics  
(aerosols, foams, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Sulfonates  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(alkane, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(alkyl, cosmetic compn. with alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Glycosides  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(alkyl, uronates; cosmetic compn. with alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(alkyl aryl, cosmetic compn. with alkyl glycoside uronate anionic

surfactant and organopolysiloxane and use in treating keratin-contg. material)

IT Betaines  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(amidoalkyl, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)

IT Surfactants  
(amphoteric, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)

IT Surfactants  
(anionic, cosmetic compn. with alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)

IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(aryl, cosmetic compn. with alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)

IT Surfactants  
(cationic, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)

IT Cyclosiloxanes  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(di-Me, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)

IT Bath preparations  
(douches, gel; cosmetic compn. with alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)

IT Cosmetics  
(emulsions, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)

IT Fatty acids, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(**ethoxylated**, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)

IT Amides, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(**fatty, ethoxylated**; cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)

IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(**fatty**, ethylene oxide/propylene oxide condensates; cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)

IT Amines, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

- (fatty, **ethoxylated**, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Cosmetics  
 (gels, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Bath preparations  
 (gels, cosmetic compn. with alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Cosmetics  
 (lotions, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Glycerides, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (mono-, sulfated, salts; cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Surfactants  
 (nonionic, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Urethane polymers, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (polyether-, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Fatty acids, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (**propoxylated**, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Fatty acids, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (salts, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Betaines  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (sulfo-, amidoalkyl; cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT Betaines  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (sulfo-, cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)
- IT 56-86-0D, Glutamic acid, acyl derivs., salts 79-10-7D, 2-Propenoic acid, polymers 107-35-7D, Taurine, N-acyl derivs., salts 107-36-8D, Isethionate, salts 107-97-1D, Sarcosine, acyl derivs., salts 108-95-2D, Phenol, alkyl derivs. 123-43-3D, Sulfoacetic acid, alkyl derivs., salts 5138-18-1D, Sulfosuccinic acid, alkylamide derivs., salts 7664-38-2D, Phosphoric acid, alkylether derivs., salts 7664-93-9D,

Sulfuric acid, alkyl ether and other derivs., salts 9003-11-6, Ethylene oxide-propylene oxide copolymer 9004-34-6D, Cellulose, derivs. 9004-82-4, Empicol ESB 3FL 25153-40-6D, Methyl vinyl ether-maleic acid copolymer, crosslinked 25322-68-3D, fatty acid esters 26100-47-0D, Acrylamide-ammonium acrylate copolymer, crosslinked 35429-19-7D, Acrylamide-methacryloyloxyethyltrimethylammonium chloride copolymer, crosslinked 40623-73-2D, Acrylamide-2-acrylamido-2-methylpropanesulfonic acid copolymer, crosslinked 58450-17-2D, Sulfosuccinamic acid, alkyl derivs., salts 131015-90-2, Elfacos GT 282S 159190-70-2D, N-cocoamidoethyl deriv.

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)

IT 9005-12-3, Poly[oxy(methylphenylsilylene)] 9016-00-6, Dimethyl siloxane 9016-00-6D, Dimethyl siloxane, cyclo copolymers with methylalkyl siloxanes 31230-04-3, Methylphenylsilanediol homopolymer 31900-57-9, Dimethylsilanediol homopolymer 31900-57-9D, Dimethylsilanediol homopolymer, cyclo copolymers with methylalkyl siloxanes 150738-55-9 150738-56-0 150738-57-1 150738-58-2 155665-02-4, Dimethylsilanediol-methylvinylsilanediol copolymer 156048-34-9, Dimethylsilanediol-diphenylsilanediol copolymer 156048-35-0 156787-84-7

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(cosmetic compn. with alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)

IT 35429-19-7D, Acrylamide-methacryloyloxyethyltrimethylammonium chloride copolymer, crosslinked

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(cosmetic compn. including alkyl glycoside uronate anionic surfactant and organopolysiloxane and use in treating keratin-contg. material)

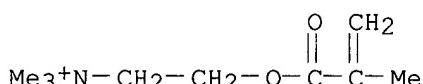
RN 35429-19-7 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

CMF C9 H18 N O2 . Cl

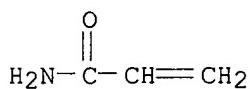


● Cl<sup>-</sup>

CM 2

CRN 79-06-1

CMF C3 H5 N O



L78 ANSWER 21 OF 27 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1994:541209 HCAPLUS  
 DN 121:141209  
 TI Method and **composition** for permanent waving of the hair  
 IN Mager, Herbert; Clausen, Thomas; Hoch, Dietrich  
 PA Wella AG, Germany  
 SO Ger. Offen., 7 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM A61K007-09

ICS A45D007-04

ICA C08L033-14; C08L005-08; B01F017-42; B01F017-18; B01F017-54

CC 62-3 (Essential Oils and **Cosmetics**)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4240471	A1	19940609	DE 1992-4240471	19921202
	EP 604717	A2	19940706	EP 1993-116199	19931007
	EP 604717	A3	19941214		
	R: DE, ES, FR, GB, IT				
	JP 06192052	A2	19940712	JP 1993-277799	19931008
	BR 9304897	A	19940614	BR 1993-4897	19931130

PRAI DE 1992-4240471 19921202

AB A permanent wave is imparted to the hair by treating the hair with a keratin-reducing agent contg. <2.5 wt.% nonionic surfactant, rinsing, and treating with a fixative contg. an **oxidizing agent**, 0.01-6 wt.% cationic surfactant, and 0.01-6 wt.% cationic polymer. Thus, a reducing component (pH 8.4) contained 70% aq. ammonium **thioglycolate** soln. 12.0, NH4HCO3 2.0, 28% aq. NH3 soln. 0.8, **ethoxylated** castor oil 0.2, perfume oil 0.1, and water 84.9 g, and an oxidizing component (pH 2.0) contained 35% aq. H2O2 soln. 7.0, 20% aq. Gafquat 755N soln. 2.0, dimethicone copolyol 0.5, 85% aq. H3PO4 soln. 0.2, cetyltrimethylammonium chloride 0.1, and water 90.2 g.

ST hair waving **compn** surfactant cationic polymer

IT Quaternary ammonium compounds, biological studies

RL: BIOL (Biological study)  
(coco **fatty** amidopropylidemethylacetamidyl, chlorides, hair wave-setting **compn**. with oxidizing component contg.)

IT Siloxanes and Silicones, biological studies

RL: BIOL (Biological study)  
(surfactants, hair wave-setting **compn**. with oxidizing component contg.)

IT Quaternary ammonium compounds, biological studies

RL: BIOL (Biological study)  
(bis(hydrogenated tallow alkyl)dimethyl, chlorides, hair wave-setting **compn**. with oxidizing component contg.)

IT Quaternary ammonium compounds, biological studies

RL: BIOL (Biological study)  
(chlorides, hair wave-setting **compn**. with oxidizing component contg.)

IT Amines, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

- (coco alkyl, **ethoxylated**, hair wave-setting **compn.**  
with reducing component contg.)
- IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, Me hydrogen siloxane-, acetate esters; hair wave-setting  
**compn.** with oxidizing component contg.)
- IT Polyoxyalkylenes, biological studies  
RL: BIOL (Biological study)  
(di-Me, Me hydrogen siloxane-, hair wave-setting **compn.** with  
oxidizing component contg.)
- IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, Me hydrogen siloxane-, Bu ethers, hair wave-setting  
**compn.** with oxidizing component contg.)
- IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, Me hydrogen siloxane-, Me ethers, hair wave-setting  
**compn.** with oxidizing component contg.)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, Me hydrogen, polyoxyalkylene-, acetate esters; hair  
wave-setting **compn.** with oxidizing component contg.)
- IT Siloxanes and Silicones, biological studies  
RL: BIOL (Biological study)  
(di-Me, Me hydrogen, polyoxyalkylene-, hair wave-setting **compn**  
. with oxidizing component contg.)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, Me hydrogen, polyoxyalkylene-, Bu ethers, hair wave-setting  
**compn.** with oxidizing component contg.)
- IT Siloxanes and Silicones, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, Me hydrogen, polyoxyalkylene-, Me ethers, hair wave-setting  
**compn.** with oxidizing component contg.)
- IT Lanolin  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(**ethoxylated**, hair wave-setting **compn.** with  
reducing component contg.)
- IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(**fatty, ethoxylated**, hair wave-setting  
**compn.** with reducing component contg.)
- IT Castor oil  
Lanolin  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hydrogenated, **ethoxylated**, hair wave-setting **compn**  
. with reducing component contg.)
- IT Surfactants  
(nonionic, hair wave-setting **compn.** with reducing component  
contg.)
- IT Hair preparations

(wave-setting, oxidizing compn. contg. cationic polymer and cationic surfactant for)

IT 104-74-5, Laurylpyridinium chloride 112-00-5, Lauryltrimethylammonium chloride 112-02-7, Cetyltrimethylammonium chloride 112-03-8, Stearyltrimethylammonium chloride 122-18-9, Cetyldimethylbenzylammonium chloride 123-03-5, Cetylpyridinium chloride 4574-04-3, Tetradecyltrimethylammonium chloride 9012-76-4D, Chitosan, cationic derivs. 25154-86-3D, Poly(dimethylaminoethyl methacrylate), methyl-quaternized 25234-60-0, Choline laurate chloride 26006-22-4, Polyquaternium 5 26062-79-3, Polyquaternium 6 26590-05-6, Polyquaternium 7 27103-90-8, Polyquaternium 14 32426-11-2, Decyldimethyloctylammonium chloride 52132-48-6 53633-54-8, Polyquaternium 11 53694-17-0, Polyquaternium 22 55008-57-6, Gafquat 755N 81859-24-7, Polyquaternium 10 85563-48-0 92183-41-0, Polyquaternium 4 95144-24-4, Polyquaternium 16 130291-58-6, Polyquaternium 9

RL: BIOL (Biological study)

(hair wave-setting compn. with oxidizing component contg.)

IT 26027-38-3, Nonoxynol

RL: BIOL (Biological study)

(hair wave-setting compn. with reducing component contg.)

IT 26006-22-4, Polyquaternium 5 27103-90-8, Polyquaternium 14

RL: BIOL (Biological study)

(hair wave-setting compn. with oxidizing component contg.)

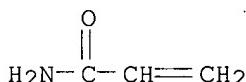
RN 26006-22-4 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 79-06-1

CMF C3 H5 N O



CM 2

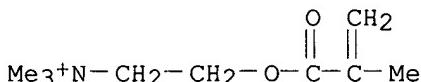
CRN 6891-44-7

CMF C9 H18 N O2 . C H3 O4 S

CM 3

CRN 33611-56-2

CMF C9 H18 N O2



CM 4

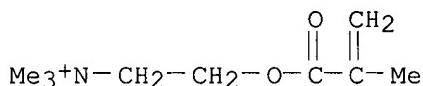
CRN 21228-90-0  
 CMF C H3 O4 S

Me—O—SO<sub>3</sub><sup>-</sup>

RN 27103-90-8 HCPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 33611-56-2  
 CMF C9 H18 N O2



CM 2

CRN 21228-90-0  
 CMF C H3 O4 S

Me—O—SO<sub>3</sub><sup>-</sup>

L78 ANSWER 22 OF 27 HCPLUS COPYRIGHT 2002 ACS  
 AN 1994:307083 HCPLUS  
 DN 120:307083  
 TI Melanotic hydrosoluble polymer colorant of indole compounds, its preparation, and coloring cosmetic compositions containing it  
 IN Mondet, Jean; Langla, Bernard; Andrean, Herve; Lagrange, Alain  
 PA Oreal S. A., Fr.  
 SO Fr. Demande, 32 pp.  
 CODEN: FRXXBL  
 DT Patent  
 LA French  
 IC ICM A61K007-021  
 ICS A61K007-13; A61K007-48; C09B067-10; C08K005-3417; C08L003-00;  
 C08L005-00; C08L077-00; C08L033-00  
 CC 62-3 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 35  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2695033	A1	19940304	FR 1992-10264	19920825
FR 2695033	B1	19941125		

OS MARPAT 120:307083  
 AB The title polymer colorant is obtained by oxidizing an indole or indolinic compd. in an aq. milieu in the presence of a hydrosol. anionic, cationic, amphoteric, or nonionic polymer and sepn. of the resulting colorant polymer by filtration and pptn. or by filtration and lyophilization. The polymer is useful in cosmetic makeup or in coloring hair or skin. Sol.

poly-.beta.-alanine was prep'd. and used with H<sub>2</sub>O<sub>2</sub> in the prepn. of a black hydrosol. polymer of 5,6-dihydroxyindole. A mascara gel and a hair coloring lotion were prep'd. which contained the polymer colorant.

ST polymer colorant indole cosmetic; hair color polymer colorant indole; skin color polymer colorant indole

IT Protein hydrolyzates  
 RL: PREP (Preparation)  
 (Monteine CA, in prepn. of melanotic hydrosol. polymer colorants from dihydroxyindole, for hair coloring or cosmetics)

IT Keratins  
 RL: PREP (Preparation)  
 (Monteine WKHP, in prepn. of melanotic hydrosol. polymer colorants from dihydroxyindole, for hair coloring or cosmetics)

IT Oxidizing agents  
 (in prepn. of melanotic hydrosol. polymer colorants from indole or indolinic compds., for hair coloring or cosmetics)

IT Polymers, biological studies  
 RL: BIOL (Biological study)  
 (melanotic hydrosol. colorants, from indole or indolinic compds., for hair coloring or cosmetics)

IT Coloring materials  
 (melanotic hydrosol. polymers, from indole or indolinic compds., for hair coloring or cosmetics)

IT Alkali metal iodides  
 Protein hydrolyzates  
 RL: PREP (Preparation)  
 (compds., in prepn. of melanotic hydrosol. polymer colorants from indole or indolinic, for hair coloring or cosmetics)

IT Dyes  
 (cosmetic, melanotic hydrosol. polymer colorants from indole or indolinic compds. in)

IT Hair preparations  
 (dyes, melanotic hydrosol. polymer colorants from indole or indolinic compds. in)

IT Keratins  
 RL: PREP (Preparation)  
 (hydrolyzates, in prepn. of melanotic hydrosol. polymer colorants from indole or indolinic compds., for hair coloring or cosmetics)

IT Alkaline earth halides  
 RL: PREP (Preparation)  
 (iodides, in prepn. of melanotic hydrosol. polymer colorants from indole or indolinic compds., for hair coloring or cosmetics)

IT Cosmetics  
 (makeups, melanotic hydrosol. polymer colorants from indole or indolinic compds. in)

IT Cosmetics  
 (mascaras, gels, melanotic hydrosol. polymer colorants in)

IT 7758-98-7, Copper sulfate, uses 8061-51-6, Sodium lignosulfonate 9004-62-0, Cellosize WPO.9H 9004-64-2, Klucel J  
 RL: BIOL (Biological study)  
 (in prepn. of melanotic hydrosol. polymer colorants from dihydroxyindole, for hair coloring or cosmetics)

IT 7553-56-2D, Iodine, compds. 7664-41-7, Ammonia, uses 7722-84-1, Hydrogen peroxide, uses 9003-01-4, Polyacrylic acid 9003-05-8, Polyacrylamide 9003-39-8, Polyvinylpyrrolidone 9004-32-4, Sodium carboxymethylcellulose 9004-54-0, Dextran, uses 9005-25-8, Starch, uses 12027-06-4, Ammonium iodide 24937-14-2, Poly-.beta.-alanine 25513-34-2, Poly-.beta.-alanine 26062-79-3, Polydiallyl dimethylammonium chloride 86348-08-5 147398-77-4  
 RL: BIOL (Biological study)

(in prepn. of melanotic hydrosol. polymer colorants from indole or indolinic compds., for hair coloring or cosmetics)

IT 120-72-9D, Indole, compds. 496-15-1D, Indoline, compds. 3131-52-0,  
5,6-Dihydroxyindole 4813-45-0, 3-Methyl5,6-dihydroxyindole 138937-28-7  
, 5,6-Dihydroxyindoline hydrobromide

RL: BIOL (Biological study)

(melanotic hydrosol. polymer colorants prepns. from, for hair coloring or cosmetics)

IT 147398-77-4

RL: BIOL (Biological study)

(in prepn. of melanotic hydrosol. polymer colorants from indole or indolinic compds., for hair coloring or cosmetics)

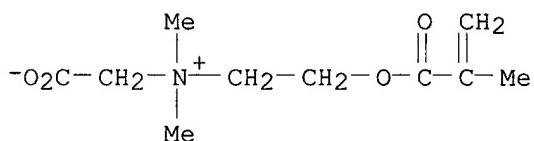
RN 147398-77-4 HCPLUS

CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 62723-61-9

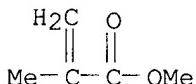
CMF C10 H17 N O4



CM 2

CRN 80-62-6

CMF C5 H8 O2



L78 ANSWER 23 OF 27 HCPLUS COPYRIGHT 2002 ACS

AN 1993:131746 HCPLUS

DN 118:131746

TI Shampoos containing cationic and anionic surfactants to impart improved hair conditioning properties

IN Duffy, Michele; Bergmann, Wolfgang

PA Curtis, Helene, Inc., USA

SO Eur. Pat. Appl., 42 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

FAN,CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 511652	A1	19921104	EP 1992-107311	19920429

EP 511652	B1	19951129		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 2066885	AA	19921030	CA 1992-2066885	19920423
IL 101682	A1	19961205	IL 1992-101682	19920423
NO 9201640	A	19921030	NO 1992-1640	19920428
AU 9215224	A1	19921105	AU 1992-15224	19920428
AU 653216	B2	19940922		
ZA 9203084	A	19930127	ZA 1992-3084	19920428
AT 130751	E	19951215	AT 1992-107311	19920429
ES 2080369	T3	19960201	ES 1992-107311	19920429
JP 06107525	A2	19940419	JP 1992-155568	19920430
PRAI US 1991-692709		19910429		
OS MARPAT 118:131746				
AB	A conditioning shampoo comprises (1) an anionic cleansing surfactant 1-15, (2) a polymeric cationic conditioning compd. 0.1-2, (3) a cationic conditioning surfactant 0.2-10, (4) a fatty acid ester 0.1-3, and (5) water as carrier. A hair conditioner contained guar hydroxypropyltrimonium 1.50, ricinoleamidopropyl trimonium chloride (Surfactrol Q1) 1.65, linoleamidopropyl PG-dimonium chloride phosphate (Phospholipid EFA) 0.60, ammonium lauryl sulfate 6.14, ammonium lauryl ether sulfate 6.14, cetearyl octanoate (Purcellin oil) 2.00, and water q.s. 100%.			
ST	conditioning shampoo cationic anionic surfactant			
IT	Quaternary ammonium compounds, biological studies			
	RL: BIOL (Biological study)			
	(hair conditioning shampoo contg. anionic surfactants and fatty acid esters and)			
IT	Betaines			
	RL: BIOL (Biological study)			
	(hair conditioning shampoo contg. cationic and anionic surfactants and fatty acid esters and)			
IT	Alcohols, esters			
	RL: BIOL (Biological study)			
	(C16-18, esters, hair conditioning shampoo contg. anionic and cationic surfactants and)			
IT	Betaines			
	RL: BIOL (Biological study)			
	(coco alkyl, hair conditioning shampoo contg. cationic and anionic surfactants and fatty acid esters and)			
IT	Betaines			
	RL: BIOL (Biological study)			
	(coco amidopropyl, hair conditioning shampoo contg. cationic and anionic surfactants and fatty acid esters and)			
IT	Fatty acids, esters			
	RL: BIOL (Biological study)			
	(coco, Me esters, hair conditioning shampoo contg. anionic and cationic surfactants and)			
IT	Amides, biological studies			
	RL: BIOL (Biological study)			
	(coco, N,N-bis(hydroxyethyl), hair conditioning shampoo contg. cationic and anionic surfactants and fatty acid esters and)			
IT	Amides, biological studies			
	RL: BIOL (Biological study)			
	(coco, N-(hydroxyethyl), hair conditioning shampoo contg. cationic and anionic surfactants and fatty acid esters and)			
IT	Shampoos			
	(conditioning, anionic and cationic surfactants and fatty acid esters in)			
IT	Carbohydrates and Sugars, esters			
	RL: BIOL (Biological study)			

(esters, hair conditioning shampoo contg. cationic and anionic surfactants and fatty acid esters and)

IT **Alcohols**, compounds  
RL: BIOL (Biological study)  
(**fatty, ethoxylated**, hair conditioning shampoo contg. cationic and anionic surfactants and)

IT **Alcohols**, compounds  
RL: BIOL (Biological study)  
(**fatty, propoxylated**, hair conditioning shampoo contg. cationic and anionic surfactants and)

IT **Amides**, biological studies  
RL: BIOL (Biological study)  
(**fatty, N,N-bis(hydroxyalkyl)**, hair conditioning shampoo contg. cationic and anionic surfactants and fatty acid esters and)

IT **Amides**, biological studies  
RL: BIOL (Biological study)  
(**fatty, N-(hydroxyalkyl)**, hair conditioning shampoo contg. cationic and anionic surfactants and fatty acid esters and)

IT Amides, compounds  
RL: BIOL (Biological study)  
(long-chain, **ethoxylated**, hair conditioning shampoo contg. cationic and anionic surfactants and fatty acid esters and)

IT **Alcohols**, esters  
RL: BIOL (Biological study)  
(polyhydric, esters, hair conditioning shampoo contg. cationic and anionic surfactants and fatty acid esters and)

IT **Fatty acids**, esters  
RL: BIOL (Biological study)  
(soya, Me esters, hair conditioning shampoo contg. anionic and cationic surfactants and)

IT **Amides**, biological studies  
RL: BIOL (Biological study)  
(soya, N,N-bis(hydroxyethyl), hair conditioning shampoo contg. cationic and anionic surfactants and fatty acid esters and)

IT **Betaines**, sulfo-, amido  
RL: BIOL (Biological study)  
(sulfo-, amido, hair conditioning shampoo contg. cationic and anionic surfactants and fatty acid esters and)

IT **Fatty acids**, esters  
RL: BIOL (Biological study)  
(tallow, Me esters, hair conditioning shampoo contg. anionic and cationic surfactants and)

IT **Fatty acids**, esters  
RL: BIOL (Biological study)  
(tallow, iso-Pr esters, hair conditioning shampoo contg. anionic and cationic surfactants and)

IT **Amides**, biological studies  
RL: BIOL (Biological study)  
(tallow, N,N-bis(hydroxyethyl), hair conditioning shampoo contg. cationic and anionic surfactants and fatty acid esters and)

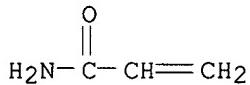
IT **Amides**, biological studies  
RL: BIOL (Biological study)  
(tallow, N-(hydroxyethyl), hair conditioning shampoo contg. cationic and anionic surfactants and fatty acid esters and)

IT **Amines**, oxides  
RL: BIOL (Biological study)  
(N-oxides, hair conditioning shampoo contg. cationic and anionic surfactants and fatty acid esters and)

IT 106-70-7, Methyl caproate 110-27-0, Isopropyl myristate 110-34-9  
110-36-1, Butyl myristate 111-59-1, Propyl oleate 111-61-5, Ethyl

stearate 111-62-6, Ethyl oleate 111-82-0, Methyl laurate 112-10-7,  
 Isopropyl stearate 112-11-8, Isopropyl oleate 112-53-8D, 1-Dodecanol,  
 esters 112-61-8, Methyl stearate 112-62-9, Methyl oleate 112-63-0,  
 Methyl linoleate 112-72-1D, Myristyl alcohol, esters 112-92-5D,  
 Stearyl alcohol, esters 123-95-5, Butyl stearate 124-06-1, Ethyl  
 myristate 124-07-2D, Octanoic acid, C16-18-alkyl esters 124-10-7,  
 Methyl myristate 141-24-2, Methyl ricinoleate 142-77-8, Butyl oleate  
 142-91-6 143-28-2D, Oleyl alcohol, esters 547-64-8, Methyl lactate  
 628-97-7, Ethyl palmitate 646-13-9, Isobutyl stearate 661-19-8D,  
 Behenyl alcohol, esters 929-77-1, Methyl behenate 10233-13-3,  
 Isopropyl laurate 16456-36-3, Myristyl octanoate 18312-31-7, Stearyl  
 octanoate 19149-86-1 20292-09-5, Lauryl octanoate 22882-95-7,  
 Isopropyl linoleate 25263-97-2 26718-95-6, Isopropyl behenate  
 27458-93-1D, Isostearyl alcohol, esters 29710-31-4, Cetyl octanoate  
 34364-24-4 36653-82-4D, Cetyl alcohol, esters 66009-41-4 68171-33-5,  
 Isopropyl isostearate 71685-99-9, Isopropyl ricinoleate 108347-90-6  
 RL: BIOL (Biological study)  
 (hair conditioning shampoo contg. anionic and cationic surfactants and)  
 IT 26006-22-4, Polyquaternium 5 26062-79-3, Polyquaternium 6  
 26590-05-6, Polyquaternium 7 27103-90-8, Polyquaternium 14  
**35429-19-7**, Polyquaternium 15 53633-54-8, Polyquaternium 11  
 63451-27-4, Polyquaternium 2 65497-29-2 68877-47-4, Polyquaternium 13  
 75345-27-6, Polyquaternium 1 81859-24-7, Polyquaternium 10 92183-41-0  
 127311-98-2, Ricinoleamidopropyl trimonium chloride 130291-58-6,  
 Polyquaternium 9 145808-63-5 146189-14-2, Polyquaternium 8  
 RL: BIOL (Biological study)  
 (hair conditioning shampoo contg. anionic surfactants and fatty acid  
 esters and)  
 IT 56-40-6D, Glycine, N,N-(2-hydroxyethyl) tallow derivs. 93-82-3,  
 Stearamide DEA 93-83-4, Oleylamide DEA 111-05-7, Oleamide MIPA  
 111-57-9, Stearamide MEA 120-40-1, Lauramide DEA 142-54-1, Lauramide  
 MIPA 4292-10-8 7013-35-6D, derivs. 7545-23-5, Myristamide DEA  
 25054-76-6D, coco fatty acid derivs. 25322-68-3 52794-79-3,  
 Isostearamide DEA 54536-43-5, Isostearamide MEA  
 RL: BIOL (Biological study)  
 (hair conditioning shampoo contg. cationic and anionic surfactants and  
 fatty acid esters and)  
 IT 151-21-3, Sodium lauryl sulfate, biological studies 2235-54-3, Ammonium  
 lauryl sulfate 9004-82-4 19277-88-4, Stearamidopropyl trimonium methyl  
 sulfate 32612-48-9 51812-80-7, Quaternium 22 64156-20-3, Quaternium  
 26 67633-63-0, Isostearamidopropyl ethyldimonium ethosulfate  
 112324-16-0, Ricinoleamidopropyl ethyldimonium ethosulfate 127312-01-0  
 145706-87-2  
 RL: BIOL (Biological study)  
 (hair conditioning shampoo contg. cationic surfactants and fatty acid  
 esters and)  
 IT 68877-50-9, Polyquaternium 12  
 RL: BIOL (Biological study)  
 (hair conditioning shampoo contg. anionic surfactants and fatty acid  
 esters and)  
 IT 26006-22-4, Polyquaternium 5 27103-90-8, Polyquaternium  
 14 **35429-19-7**, Polyquaternium 15  
 RL: BIOL (Biological study)  
 (hair conditioning shampoo contg. anionic surfactants and fatty acid  
 esters and)  
 RN 26006-22-4 HCPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl  
 sulfate, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CRN 79-06-1  
 CMF C3 H5 N O

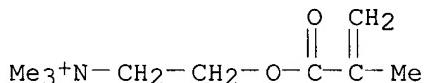


CM 2

CRN 6891-44-7  
 CMF C9 H18 N O2 . C H3 O4 S

CM 3

CRN 33611-56-2  
 CMF C9 H18 N O2



CM 4

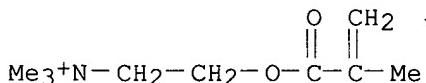
CRN 21228-90-0  
 CMF C H3 O4 S

 $\text{Me}-\text{O}-\text{SO}_3^-$ 

RN 27103-90-8 HCAPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 33611-56-2  
 CMF C9 H18 N O2



CM 2

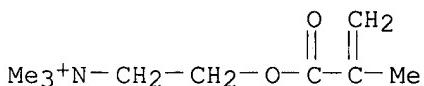
CRN 21228-90-0  
 CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

RN 35429-19-7 HCPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

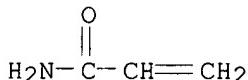
CM 1

CRN 5039-78-1  
 CMF C9 H18 N O2 . Cl

● Cl<sup>-</sup>

CM 2

CRN 79-06-1  
 CMF C3 H5 N O



L78 ANSWER 24 OF 27 HCPLUS COPYRIGHT 2002 ACS  
 AN 1993:109387 HCPLUS  
 DN 118:109387  
 TI Pearlescent shampoo compositions containing dimethyl silicones, sulfates, aminoalkylcarboxylates, and nitrogen-containing polymers  
 IN Kawai, Yasuhiro  
 PA Sunstar, Inc., Japan  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM A61K007-075  
 CC 62-3 (Essential Oils and Cosmetics)  
 FAN.CNT 1

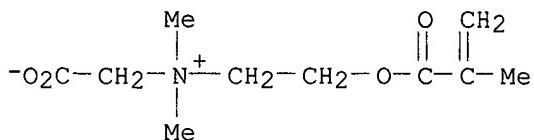
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04243810	A2	19920831	JP 1991-25428	19910125
JP 2510790	B2	19960626		

OS MARPAT 118:109387  
 AB Pearlescent shampoo compns. with 500-4000 cPp viscosity at 25.degree. contain emulsions of (1) R<sub>1</sub>Me<sub>2</sub>SiO[SiMe<sub>2</sub>O]<sub>k</sub>SiMe<sub>2</sub>R<sub>2</sub> (R<sub>1</sub>, R<sub>2</sub> = Me, H; k = 4000-9000) 0.01-5 (as di-Me silicones), R<sub>3</sub>O[CH<sub>2</sub>CH<sub>2</sub>O]<sub>1</sub>SO<sub>3</sub>M<sub>1</sub> and/or R<sub>4</sub>CONH[CH<sub>2</sub>CH<sub>2</sub>O]<sub>m</sub>SO<sub>3</sub>M<sub>2</sub> (R<sub>3</sub>, R<sub>4</sub> = C<sub>7</sub>-17 alkyl or alkenyl; M<sub>1</sub>, M<sub>2</sub> = cation

from alkali metal, alk. earth metal, NH<sub>4</sub>, or alkanolamine; l, m = 0-10) 1-15, (2) R<sub>5</sub>[CONH(CH<sub>2</sub>)<sub>3</sub>]nN+Me<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>-, R<sub>6</sub>CONHCH<sub>2</sub>CH<sub>2</sub>NR<sub>7</sub>CH<sub>2</sub>CH<sub>2</sub>OH, and/or R<sub>8</sub> CON(CH<sub>2</sub>CH<sub>2</sub>OH)(CH<sub>2</sub>CH<sub>2</sub>NR<sub>9</sub>R<sub>10</sub>) (R<sub>5</sub> = C<sub>7</sub>-17 alkyl or alkenyl; R<sub>6</sub>, R<sub>8</sub> = C<sub>7</sub>-17 alkyl; R<sub>7</sub>, R<sub>9</sub> = CH<sub>2</sub>CO<sub>2</sub>M<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>M<sub>3</sub>; R<sub>10</sub> = H, CH<sub>2</sub>CO<sub>2</sub>M<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>M<sub>3</sub>; M<sub>3</sub> = cation from alkali metal or alkanolamine; n = 0, 1) 1-10, and (3) N-contg. water-sol. polymers 0.1-1 wt.%. The compns. show good hair-conditioning effects. A shampoo comprised di-Me silicone emulsion (contg. 50% di-Me silicone, 6000 polymn. degree) 0.02, polyoxyethylene(3) lauryl ether Na sulfate 5, Na lauryldimethylaminoacetate (sic) 5, cationic cellulose 0.5, ethylene glycol distearate 1.5, coconut oil fatty acid diethanolamide 3, antiseptics, pigments, fragrances, and H<sub>2</sub>O to 100 parts.

- ST Shampoo silicone sulfate aminoalkylcarboxylate polymer
- IT Shampoos  
(contg. di-Me silicones and sulfates and aminoalkylcarboxylates and polymers, pearlescent)
- IT Betaines  
RL: BIOL (Biological study)  
(coco amidopropyl, shampoos contg. di-Me silicones and sulfates and polymers and, pearlescent)
- IT Siloxanes and Silicones, biological studies  
RL: BIOL (Biological study)  
(di-Me, shampoos contg. sulfates and aminoalkylcarboxylates and polymers and, pearlescent)
- IT 9004-34-6, Cellulose, miscellaneous  
RL: MSC (Miscellaneous)  
(cationic, shampoos contg. di-Me silicones and sulfates and aminoalkylcarboxylates and, pearlescent)
- IT 139-96-8, Lauryl sulfate triethanolamine salt 9004-82-4, Polyoxyethylene lauryl ether sulfate sodium salt  
RL: BIOL (Biological study)  
(shampoos contg. di-Me silicones and aminoalkylcarboxylates and polymers and, pearlescent)
- IT 25322-68-3D, alkyl ethers, sulfosuccinates, sodium salts. 26838-05-1 58450-52-5  
RL: BIOL (Biological study)  
(shampoos contg. di-Me silicones and sulfates and aminoalkylcarboxylates and polymers and)
- IT 79-10-7D, Acrylic acid, esters, polymers with octylacrylamide and butylaminoethyl methacrylate 10124-68-2D, N-Octylacrylamide, polymers with butylaminoethyl methacrylate and acrylate esters 24171-27-5D, polymers with octylacrylamide and acrylate esters 26590-05-6, Acrylamide-diallyldimethylammonium chloride copolymer 79702-43-5  
RL: BIOL (Biological study)  
(shampoos contg. di-Me silicones and sulfates and aminoalkylcarboxylates and, pearlescent)
- IT 94087-04-4 116826-52-9  
RL: BIOL (Biological study)  
(shampoos contg. di-Me silicones and sulfates and polymers and, pearlescent)
- IT 79702-43-5  
RL: BIOL (Biological study)  
(shampoos contg. di-Me silicones and sulfates and aminoalkylcarboxylates and, pearlescent)
- RN 79702-43-5 HCPLUS
- CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, homopolymer (9CI) (CA INDEX NAME)

CRN 62723-61-9  
 CMF C10 H17 N 04



L78 ANSWER 25 OF 27 HCAPLUS COPYRIGHT 2002 ACS  
 AN 1990:597651 HCAPLUS  
 DN 113:197651  
 TI Foaming aerosols for hair wave-setting, free of halohydrocarbons  
 IN Goetz, Harry; Hartmann, Peter; Koehler, Joachim  
 PA Wella A.-G., Fed. Rep. Ger.  
 SO Ger. Offen., 9 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 IC ICM A61K007-09  
 ICS C09K003-30  
 ICA B01F017-02; B01F017-30; B01F017-42  
 CC 62-3 (Essential Oils and Cosmetics)  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3819620	A1	19891214	DE 1988-3819620	19880609
DE 3819620	C2	19920123		

AB The title aerosols comprise the usual keratin-reducing or - oxidizing agents, 2-10% butane, isobutane and/or propane, 0.1-5% anionic surfactant(s), 0.1-10% nonionic surfactant(s), and 0.1-5% cationic polymer(s). A compn. comprised ammonium thioglycolate 12.6, (NH4)HCO3 5.0, Polysorbate-80 3.0, dipropylene glycol mono-Me ether 2.5, ethoxylated isoctylphenol 2.0, polyoxyethylene-polyoxypropylene block copolymer 2.0, Lamepon-type anionic protein-fatty acid condensation product 1.0, (NH4)2CO3 0.5, polyquaternium-10 0.5, polyquaternium-140.1, perfume 0.4, and water 70.4 g.

ST aerosol spray foaming wavesetting compn  
 IT Betaines  
 RL: BIOL (Biological study)  
 ((coco amidopropyl)dimethyl, hair wave-setting foams contg.)  
 IT Sulfonic acids, compounds  
 RL: BIOL (Biological study)  
 (alkane, alk. earth salts, hair wave-setting foams contg.)  
 IT Sulfonic acids, compounds  
 RL: BIOL (Biological study)  
 (alkane, alkali metal salts, hair wave-setting foams contg.)  
 IT Sulfonic acids, compounds  
 RL: BIOL (Biological study)  
 (alkane, ammonium salts, hair wave-setting foams contg.)  
 IT Phenols, biological studies  
 RL: BIOL (Biological study)  
 (ethoxy, hair wave-setting foams contg.)  
 IT Castor oil  
 Lanolin  
 RL: BIOL (Biological study)

(ethoxylated, hair wave-setting foams contg.)

IT Alcohols, compounds  
 RL: BIOL (Biological study)  
 (fatty, ethoxylated, hair wave-setting foams  
 contg.)

IT Alcohols, compounds  
 RL: BIOL (Biological study)  
 (lanolin, ethoxylated, hair wave-setting foams contg.)

IT Proteins, specific or class  
 RL: BIOL (Biological study)  
 (reaction products, with fatty acids, anionic, hair  
 wave-setting foams contg.)

IT Fatty acids, compounds  
 RL: BIOL (Biological study)  
 (reaction products, with proteins, anionic, hair wave-setting foams  
 contg.)

IT Hair preparations  
 (wave-setting, foaming aerosol sprays)

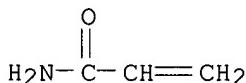
IT 57-13-6, Urea, biological studies 5421-46-5, Ammonium  
**thioglycolate** 7664-93-9D, Sulfuric acid, alkyl esters, salts  
 7664-93-9D, Sulfuric acid, monoalkyl esters, metal salts 7722-84-1,  
 Hydrogen peroxide (H2O2), biological studies 7789-38-0, Sodium bromate  
 9004-82-4, Sodium lauryl ether sulfate 9004-87-9, **Ethoxylated**  
 isoctylphenol 9005-64-5, Polysorbate-20 9005-65-6, Polysorbate-80  
 9005-66-7, Polysorbate-40 9012-76-4D, Chitosan, cationic derivs.  
 9036-19-5, **Ethoxylated** octylphenol 25154-86-3,  
 Polydimethylaminoethyl methacrylate **26006-22-4**, Polyquaternium 5  
 26027-38-3 26062-79-3, Polyquaternium-6 26590-05-6, Polyquaternium-7  
**27103-90-8**, Polyquaternium 14 53633-54-8, Polyquaternium-11  
 81859-24-7, Polyquaternium-10 92183-41-0, Polyquaternium-4 106392-12-5  
 130291-58-6, Polyquaternium 9  
 RL: BIOL (Biological study)  
 (hair wave-setting foams contg.)

IT **26006-22-4**, Polyquaternium 5 **27103-90-8**, Polyquaternium  
 14  
 RL: BIOL (Biological study)  
 (hair wave-setting foams contg.)

RN 26006-22-4 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl  
 sulfate, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 79-06-1  
 CMF C3 H5 N O

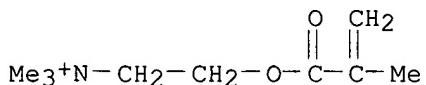
CM 2

CRN 6891-44-7  
 CMF C9 H18 N O2 . C H3 O4 S

CM 3

KOSS 09/881807 Page 79

CRN 33611-56-2  
CMF C9 H18 N O2



CM 4

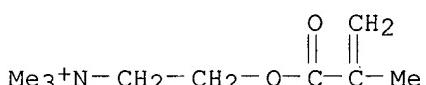
CRN 21228-90-0  
CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

RN 27103-90-8 HCPLUS  
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 33611-56-2  
CMF C9 H18 N O2



CM 2

CRN 21228-90-0  
CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

L78 ANSWER 26 OF 27 HCPLUS COPYRIGHT 2002 ACS  
AN 1985:137574 HCPLUS  
DN 102:137574  
TI Mixtures of quaternary polymeric ammonium salts and of a ternary surfactant system based on nonionic, anionic and amphoteric surfactants for conditioning shampoos  
IN Moldovanyi, Laszlo; Fearnley, Charles  
PA Ciba-Geigy A.-G. , Switz.  
SO Eur. Pat. Appl., 61 pp.  
CODEN: EPXXDW  
DT Patent  
LA German  
IC A61K007-06  
CC 62-3 (Essential Oils and Cosmetics)  
FAN.CNT 1

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 127580 EP 127580	A2 A3	19841205 19860625	EP 1984-810253	19840524
	R: BE, CH, DE, FR, GB, IT, LI, NL				
	JP 59227994	A2	19841221	JP 1984-109742	19840531
PRAI	CH 1983-2964		19830531		
AB	A mixt. of polymeric (mol. wt. 103-109) quaternary ammonium salts with a ternary surfactant system forms a clear complex system that ppts. on diln. with H2O and spreads evenly on the hair during shampooing to give a conditioning effect that is superior to that found with cream or opaque formulations. The shampoo contains 0.05-2% of the ammonium salt and 4-40% of the ternary surfactant system, which has a nonionic/anionic/amphoteric component ratio of 1:0.02-6.0:0.2-4.0. Thus, a viscous soln. of 2 parts acrylamide-2-methacryloyloxyethyl trimethylammonium chloride copolymer [35429-19-7] (45% with mol. wt. 107-109) in 100 parts H2O at 20.degree. was stirred into a soln. of 50 parts C12-18 alkanoyl aminopropylbetaine amphoteric surfactant at 20.degree. followed by a soln. of 80 parts polyoxyethylene-polyoxypropylene [9003-11-6] nonionic surfactant in 320 parts H2O and then a soln. of 10 parts triethanolamine lauryl sulfate [139-96-8] in 10 parts H2O at 35.degree. was added over 90 min. The soln. was dild. with 328 parts H2O, 10% citric acid was added to pH 5.5, and addnl. H2O was added to 1000 parts of a completely clear prep. Diln. 1:3 with H2O gave an opalescent to creamy appearance. The soln. improved the wet combability of hair when used as a shampoo.				
ST	shampoo conditioning surfactant polymer; hair conditioner quaternary acrylic polymer; surfactant quaternary polymer hair				
IT	Carbohydrates and Sugars, compounds RL: BIOL (Biological study) (alkyl and polyoxyethylene ethers, conditioning shampoos contg. amphoteric and anionic surfactants and quaternary ammonium polymers and)				
IT	Ethers, biological studies RL: BIOL (Biological study) (conditioning shampoos contg. amphoteric and anionic surfactants and quaternary ammonium polymers and)				
IT	Fatty acids, esters RL: BIOL (Biological study) (ethoxylated, conditioning shampoos contg. quaternary ammonium polymers and)				
IT	Quaternary ammonium compounds, polymers RL: BIOL (Biological study) (polymers, conditioning shampoos contg. surfactants and)				
IT	Acrylic polymers, compounds Polymers, compounds RL: BIOL (Biological study) (quaternized, salts, conditioning shampoos contg. surfactants and)				
IT	Betaines RL: BIOL (Biological study) (alkanoylaminopropyl, conditioning shampoos contg. anionic and nonionic surfactants and quaternary ammonium polymers and)				
IT	Betaines RL: BIOL (Biological study) (alkyl, conditioning shampoos contg. anionic and nonionic surfactants and quaternary ammonium polymers and)				
IT	Shampoos (conditioning, quaternary ammonium polymers and surfactants in)				
IT	Alcohols, compounds Amides, compounds RL: BIOL (Biological study)				

(fatty, ethoxylated, conditioning shampoos contg.  
quaternary ammonium polymers and)

IT 143-07-7D, esters with alkyl and polyoxyethylene sugar ethers 9003-11-6  
9004-81-3 25190-05-0 25322-68-3D, ethers with sugars 26027-38-3  
82332-32-9

RL: BIOL (Biological study)  
(conditioning shampoos contg. amphoteric and anionic surfactants and  
quaternary ammonium polymers and)

IT 137-16-6 139-96-8 3088-31-1 3624-77-9 7308-16-9 14933-09-6  
14960-06-6 36574-66-0D, N-C12-18-acyl derivs. 42608-81-1 95677-93-3  
95709-60-7

RL: BIOL (Biological study)  
(conditioning shampoos contg. anionic and nonionic surfactants and  
quaternary ammonium polymers and)

IT 107-64-2 112-80-1, biological studies 4574-04-3 9005-08-7  
36653-82-4

RL: BIOL (Biological study)  
(conditioning shampoos contg. quaternary ammonium polymers and  
surfactants and)

IT 9004-34-6D, quaternary ammonium derivs. 26006-22-4 26062-79-3  
**35429-19-7** 65497-29-2 75345-27-6

RL: BIOL (Biological study)  
(conditioning shampoos contg. surfactants and)

IT **26006-22-4 35429-19-7**

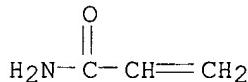
RL: BIOL (Biological study)  
(conditioning shampoos contg. surfactants and)

RN 26006-22-4 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 79-06-1  
CMF C3 H5 N O

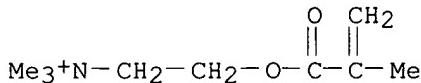


CM 2

CRN 6891-44-7  
CMF C9 H18 N O2 . C H3 O4 S

CM 3

CRN 33611-56-2  
CMF C9 H18 N O2



CM 4

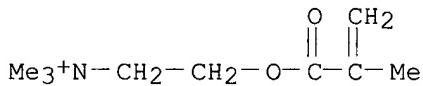
CRN 21228-90-0  
 CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

RN 35429-19-7 HCPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[ (2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

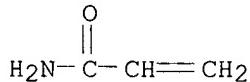
CRN 5039-78-1  
 CMF C9 H18 N O2 . Cl



● Cl<sup>-</sup>

CM 2

CRN 79-06-1  
 CMF C3 H5 N O



L78 ANSWER 27 OF 27 HCPLUS COPYRIGHT 2002 ACS

AN 1983:581282 HCPLUS

DN 99:181282

TI Agent for permanent setting of hair

IN Wajaroff, Theodor; Hartmann, Peter

PA Wella A.-G., Fed. Rep. Ger.

SO Ger. Offen., 15 pp.

CODEN: GWXXBX

DT Patent

LA German

IC A61K007-09

CC 62-3 (Essential Oils and Cosmetics)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 3207738	A1	19830908	DE 1982-3207738	19820304
DE 3207738	C2	19870813		
JP 58162513	A2	19830927	JP 1983-8612	19830120
JP 02002854	B4	19900119		

GB 2116218 A1 19830921 GB 1983-3271 19830207  
 GB 2116218 B2 19851106  
 PRAI DE 1982-3207738 19820304

AB A liq., slightly thick hair permanent wave setting **compn.**  
 contains a cationic cellulose and/or poly(trimethylammoniummethyl methacrylate) (I) [87635-01-6] or a polyacrylate, CM cellulose [9004-32-4] and/or alginic acid [9005-32-7], an **alkanolamide** and/or C12-18 **fatty** acyl dimethylammonium betaine. These **compns.** are used with **oxidizing** or reducing **agents.** A reducing agent-contg. **compn.** was prep'd.  
 contg. poly(acrylic acid) (Carbynol 934) [9003-01-4] 1.0, coco **fatty** acid **diethanolamide** 0.4, Miranol CM [39340-87-9] 0.4, coco **fatty** acyl dimethylammoniumbetaine 0.7, ammonium **thioglycolate** (50% soln.) 23.7, (NH4)2CO3 3.0, NH4HCO3, 5.0, perfume oil 0.2, and H2O 65.6 g.

ST hair permanent wave **compn**; acrylate hair permanent **compn**; betaine hair permanent **compn**; **fatty amide** hair permanent **compn**

IT Imidazolium compounds  
 RL: BIOL (Biological study)  
 (1-[2-(carboxymethoxy)ethyl]-1-(carboxymethyl)-4,5-dihydro-2-norcoco alkyl, hydroxides, inner salts, hair permanent wave-setting **compn.** contg.)

IT Betaines  
 RL: BIOL (Biological study)  
 (coco alkyldimethyl, hair permanent wave-setting **compn.** contg.)

IT Amides, biological studies  
 RL: BIOL (Biological study)  
 (coco, N,N-bis(hydroxyethyl), hair permanent wave-setting **compn.** contg.)

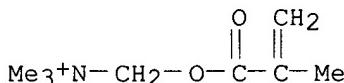
IT Hair preparations  
 (wave-setting, viscous **compns.** for, acrylates and alkanolamides and betaines in)

IT 93-83-4 9003-01-4 9004-32-4 9005-32-7 25087-26-7 39340-87-9  
 53568-66-4 87635-01-6 87714-18-9  
 RL: BIOL (Biological study)  
 (hair permanent wave-setting **compn.** contg.)

IT 87635-01-6  
 RL: BIOL (Biological study)  
 (hair permanent wave-setting **compn.** contg.)

RN 87635-01-6 HCPLUS  
 CN Methanaminium, N,N,N-trimethyl-1-[(2-methyl-1-oxo-2-propenyl)oxy]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 44986-60-9  
 CMF C8 H16 N O2



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Legal Date: 08-06-2001

No.	Doccode	Number of pages
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Total number of pages: 1

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